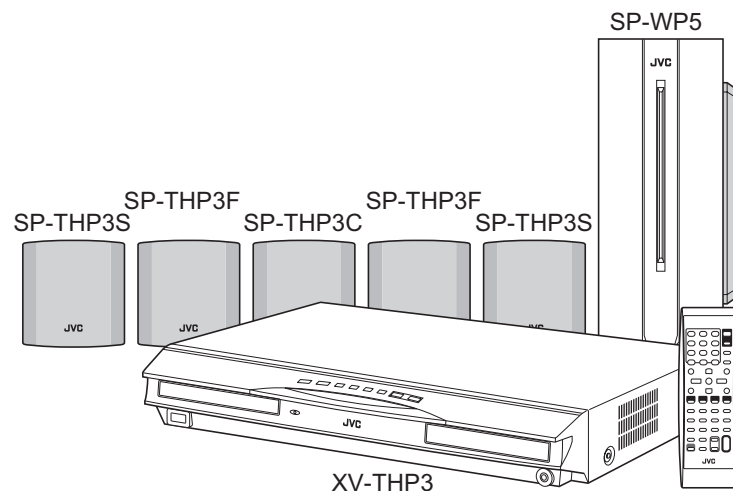


JVC

SERVICE MANUAL

DVD DIGITAL CINEMA SYSTEM

**TH-P3A,TH-P3US,TH-P3UB,
TH-P3UW,TH-P3UX,TH-P3UY,
TH-P3UJ,TH-P3UG,TH-P3UN**



MPEG-4
ASF PLAYBACK

DVD
VIDEO

COMPACT
disc
SUPERVIDEO

DOLBY
DIGITAL
PRO LOGIC II

DIGITAL
dts
SURROUND

DIVX

DIVX
ULTRA

Digital Direct Progressive Scan

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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SPECIFICATION

Center unit (XV-THP3)

Audio section	Front/Surround		40 W per channel, RMS at 3 Ω at 1 kHz, with 10 % total harmonic distortion.
	Center		100 W, RMS at 4 Ω at 1 kHz, with 10 % total harmonic distortion.
	Subwoofer		100 W, RMS at 4 Ω at 30 Hz, with 10 % total harmonic distortion.
Video section	Video System		PAL/NTSC
	Horizontal Resolution		500 lines
	Signal-to-Noise Ratio		64 dB
	Video output level	Composite	1.0 V(p-p)/75 Ω
		S-video-Y	1.0 V(p-p)/75 Ω
		S-video-C	For PAL: 0.3 V(p-p)/75 Ω For NTSC: 0.286 V(p-p)/75 Ω
		Component (Interlace/Progressive)	Y : 1.0 V(p-p)/75 Ω PB/PR : 0.7 V(p-p)/75 Ω
USB storage	USB specification		Compatible with the USB 2.0 Full-Speed
	Compatible device		Mass Storage Class
	Compatible file system		FAT16, FAT32
	Bus power supply		Max. 500 mA
Tuner section	Tuning Range	FM	87.50 MHz to 108.00 MHz
		AM	At 10 kHz intervals : 530 kHz to 1 710 kHz (*1 600 kHz) At 9 kHz intervals : 531 kHz to 1 710 kHz (*1 602 kHz)
Speaker impedance	Front/Surround		3 Ω to 16 Ω
	Center/Subwoofer		4 Ω to 16 Ω
General	Power Requirements		AC 110 V - 240 V , 50/60 Hz
	Power Consumption		60 W (at operation) 1.4 W (in standby mode)
	Dimensions (W \times H \times D)		435 mm \times 70 mm \times 308 mm
	Mass:		3.0 kg

* For the countries of the Middle East

Speakers

Subwoofer (SP-WP5)	Type	Bass-Reflex Type
	Speaker	16 cm cone × 1
	Power Handling Capacity	100 W
	Impedance	4 Ω
	Frequency Range	35 Hz to 200 Hz
	Sound Pressure Level	75 dB/W·m
	Dimensions (W × H × D)	129 mm × 284 mm × 337 mm
	Mass	3.1 kg
Front speakers (SP-THP3F)	Type	1-Way Bass-Reflex Type (Magnetically-shielded Type)
	Speaker	6.5 cm cone × 1
	Power Handling Capacity	40 W
	Impedance	3 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	75 dB/W·m
	Dimensions (W × H × D)	92 mm × 99 mm × 95.5 mm
	Mass	0.45 kg each
Center speaker (SP-THP3C)	Type	1-Way Bass-Reflex Type (Magnetically-shielded Type)
	Speaker	6.5 cm cone × 1
	Power Handling Capacity	100 W
	Impedance	4 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	76 dB/W·m
	Dimensions (W × H × D)	92 mm × 99 mm × 95.5 mm
	Mass	0.45 kg
Surround speakers (SP-THP3S)	Type	1-Way Bass-Reflex Type
	Speaker	6.5 cm cone × 1
	Power Handling Capacity	40 W
	Impedance	3 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	72 dB/W·m
	Dimensions (W × H × D)	92 mm × 99 mm × 95.5 mm
	Mass	0.48 kg each

Designs & specifications are subject to change without notice.

SECTION 1

PRECAUTION

1.1 Safety Precautions

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

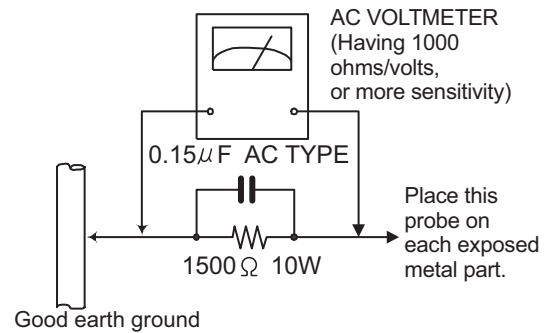
(5) Leakage shock hazard testing

After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 Ω per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

- (1) This equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.

Therefore, pay attention to such burrs in the case of pre-forming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (\blacksquare), diode (\blacksquare) and ICP (\bullet) or identified by the " Δ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Preventing static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.5.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products.

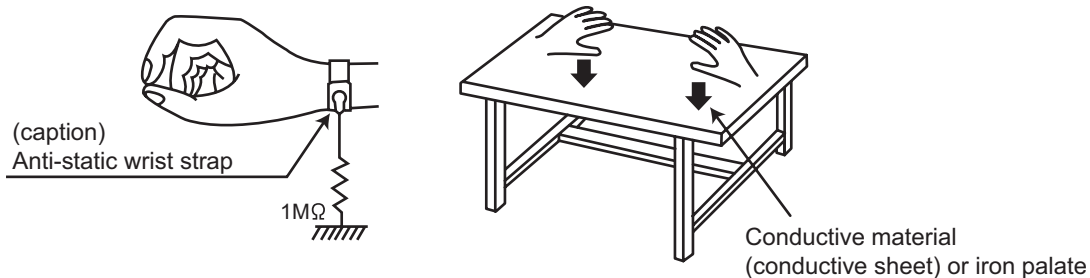
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup

- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

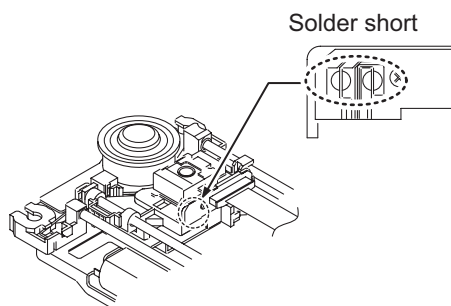
1.6 Handling the traverse unit (optical pickup)

- (1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
- (2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
- (3) Handle the flexible cable carefully as it may break when subjected to strong force.
- (4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.7 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the pickup unit.**

- Apply solder to the short land sections before the card wire is disconnected from the connector on the servo board. (If the card wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the card wire.



1.8 Important for laser products

1.CLASS 1 LASER PRODUCT

2.CAUTION :

(For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.

(Others) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

3.CAUTION : Visible and/or invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

4.CAUTION : This laser product uses visible and/or invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

(For U.S.A.)

CAUTION : Visible and/or invisible class II laser radiation when open. Do not stare into beam.

(Others)

CAUTION : Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments

ACHTUNG: Sichtbare und/oder unsichtbare Laserstrahlung der Klasse 1M bei offenen Abdeckungen. Nicht direkt mit optischen Instrumenten betrachten.

ATTENTION: Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.

VOORZICHTIG: Zichtbare en/of onzichtbare klasse 1M laserstralen indien geopend. Bekijk niet direct met optische instrumenten.

ATTENZIONE: Radiazione laser in classe 1M visibile e/o invisibile quando aperto. Non osservare direttamente con strumenti ottici.

WARNING: Synlig och/eller osynlig laserstrålning, klass 1M, när denna del är öppnad. Betrakta ej strålen med optiska instrument.

VARO! Avattaessa olet alttiina nakyyvalle ja/tai näkymättömälle luokan 1M lasersäteilylle. Älä tarkastele sitä optisen laitteen läpi.

ADVASEL: Synlig og/eller usynlig klasse 1M-laserstråling ved åbning. Se ikke direkte med optiske instrumenter.

AVISO: Radiación láser de clase 1M visible y/o invisible cuando está abierto. No mirar directamente con instrumental óptico.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos ópticos.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.



CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos ópticos.

ПРЕДУПРЕЖДЕНИЕ: В открытом состоянии происходит видимое и/или невидимое излучение лазера класса 1M. Не смотрите непосредственно в оптические инструменты.

UWAGA: Otwarcie spowoduje narażenie na widzialne i/lub niewidzialne promieniowanie lasera klasy 1M. Nie patrzeć bezpośrednio w przyrządy optyczne.

UPOZORNĚNÍ: Při otevření vydává viditelné popř. neviditelné laserové ozáření třídy 1M. Nedívejte se do otvoru přímo s optickými nástroji.

FIGYELMEZTETÉS: Látható és/vagy láthatatlan 1M osztályú sugárzás nyitott állapotban. Ne nézze közvetlenül optikai műszerekkel.

注意：打開蓋板可能會產生可見或不可見的 1M 級鐳射。不要使用光學儀器直接進行窺視。

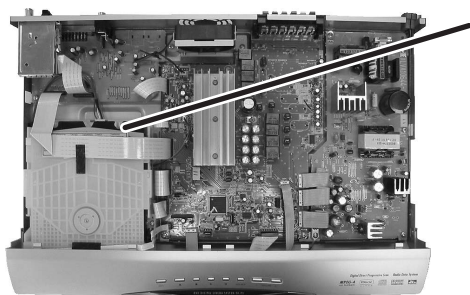
注意：打开盖板可能会产生可见或不可见的 1M 级辐射。不要使用光学仪器直接进行窥视。

تنبيه: يوجد إشعاع ليزري مرئي و/أو غير مرئي من الفئة 1M عندما يكون الجهاز مفتوحاً. تجنب النظر مباشرة داخل الجهاز باستخدام أدوات بصرية.

احتياط: هنگامی که باز گردد، تشعشع مرئی و یا نامرئی کلاس 1M لیزر وجود دارد. با لوازم چشمی مستقیماً به آن نگاه نکنید.

주의: 개방하면 가시 및/또는 비가시 클래스 1M 레이저 방사선이 나옵니다. 광학 기구로 직접 들여다보지 마십시오.

REPRODUCTION AND POSITION OF LABELS and PRINT WARNING LABEL and PRINT



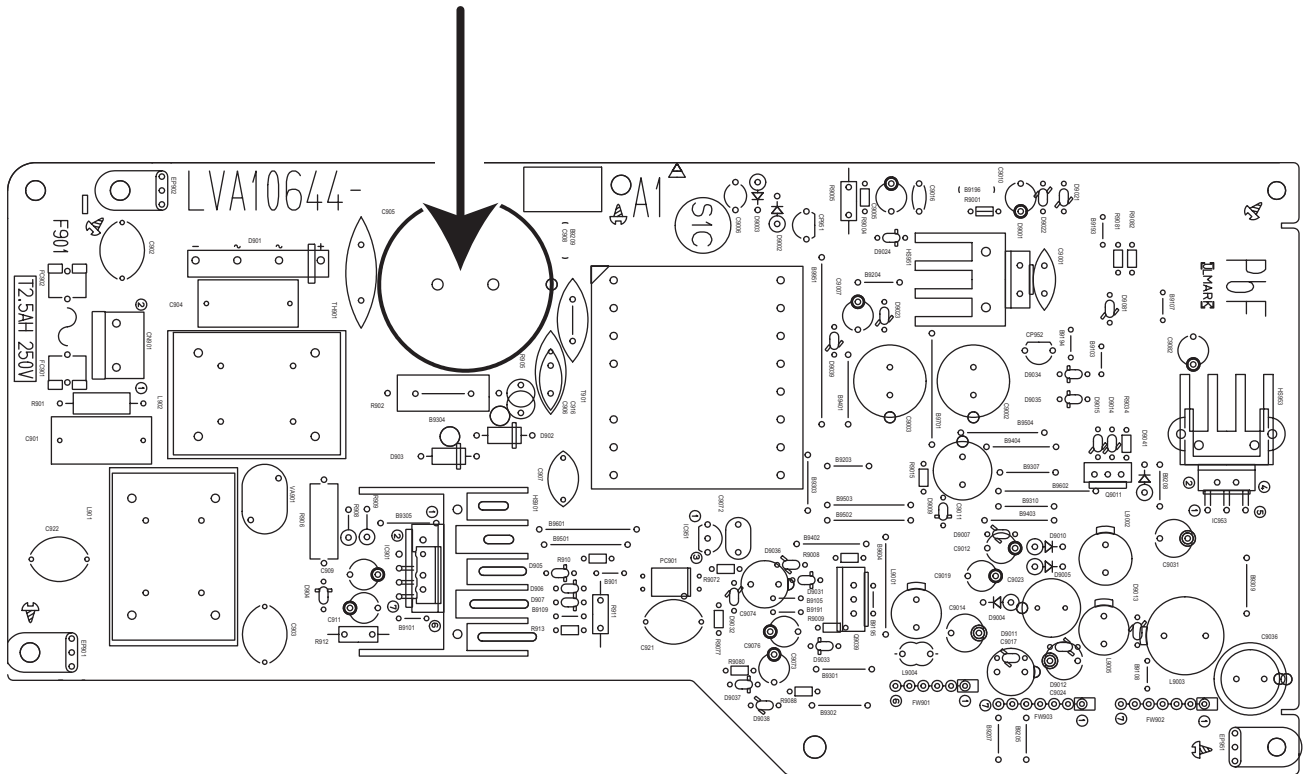
CAUTION	ATTENTION	AVISO	WARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASSE 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを覗くと可視及び/または不可視のクラス1Mレーザー放射線が出ます。光学装置で直接覗かないでください。(JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44603-003A

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

CAUTION:

Symbol C905(in power supply board) is noted not to touch because the voltage collects in the capacitor.



SECTION 3 DISASSEMBLY

3.1 Main body

3.1.1 Removing the video board (See Fig.1 to 3)

- (1) Remove the metal cover.
- (2) Disconnect the card wire from [CN652](#) of the video board, and then remove the two screws **A** attaching the tuner pack. (See Fig.1 and 2)
- (3) Remove the card wires from connector [CN601](#) and [CN651](#) of the video board. (See Fig.1)
- (4) Remove the three screws **B** attaching the video board from backside of main body. (See Fig.2)
- (5) Remove the two screws **C** attaching the video board. (See Fig.3)

Reference:

For other method, please refer the service manual TH-P3 (No. MB512).

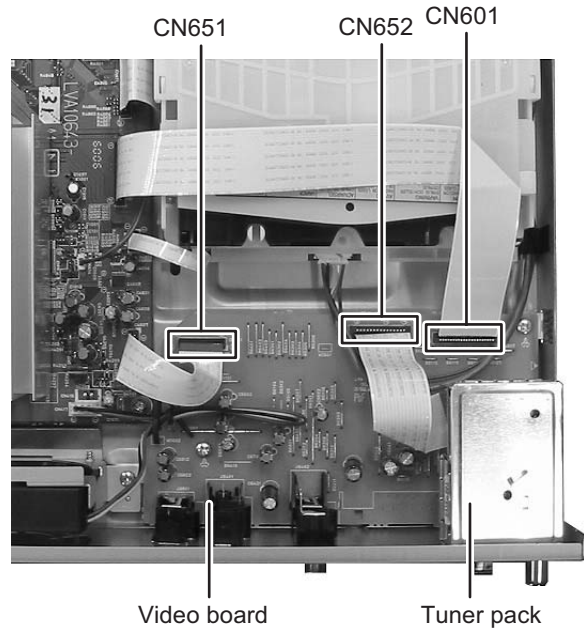


Fig.1

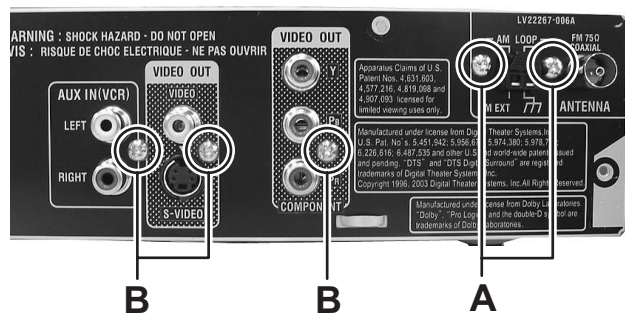


Fig.2

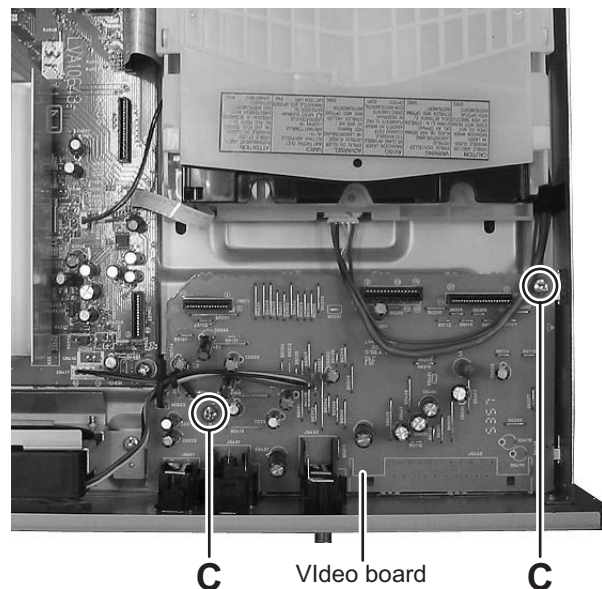


Fig.3

SECTION 4 ADJUSTMENT

Please refer to "TH-P3 (No.MB512)" about this section.

SECTION 5 TROUBLESHOOTING

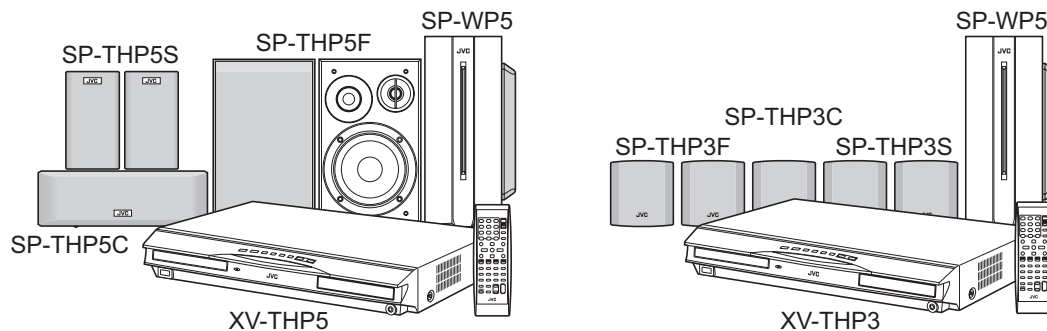
Please refer to "TH-P3 (No.MB512)" about this section.

JVC

SERVICE MANUAL

DVD DIGITAL CINEMA SYSTEM

TH-P5B, TH-P5E, TH-P5EN, TH-P5EV, TH-P3B, TH-P3E, TH-P3EN, TH-P3EV



MPEG-4
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DIVX

DIVX
ULTRA

Radio Data System

Digital Direct Progressive Scan

(Only for TH-P5)

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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SPECIFICATION

Center unit (XV-THP5/XV-THP3)

Audio section	Front/Surround		40 W per channel, RMS at 3 Ω at 1 kHz, with 10 % total harmonic distortion.
	Center		100 W, RMS at 4 Ω at 1 kHz, with 10 % total harmonic distortion.
	Subwoofer		100 W, RMS at 4 Ω at 30 Hz, with 10 % total harmonic distortion.
Video section	Video System		PAL
	Horizontal Resolution		500 lines
	Signal-to-Noise Ratio	64 dB	(Composite signal when "RGB" is selected)
	Video output level	Composite	1.0 V(p-p)/75 Ω
		Y	1.0 V(p-p)/75 Ω
		C	0.3 V(p-p)/75 Ω
		RGB	0.7 V(p-p)/75 Ω
	Only for XV-THP5	Component-Y	1.0 V(p-p)/75 Ω
		Component-PB/PR	0.7 V(p-p)/75 Ω
USB storage	USB specification		Compatible with the USB 2.0 Full-Speed
	Compatible device		Mass Storage Class
	Compatible file system		FAT16, FAT32
	Bus power supply		Max. 500 mA
Tuner section	Tuning Range	FM	87.50 MHz to 108.00 MHz
		AM (MW)	522 kHz to 1 629 kHz
General	Power Requirements		AC 230 V , 50 Hz
	Power Consumption		60 W (at operation) 1.4 W (in standby mode)
	Dimensions (W \times H \times D)		435 mm \times 70 mm \times 308 mm
	Mass		3.0 kg

Subwoofer (SP-WP5)

Type	Bass-Reflex Type
Speaker	16 cm cone \times 1
Power Handling Capacity	100 W
Impedance	4 Ω
Frequency Range	35 Hz to 200 Hz
Sound Pressure Level	75 dB/W·m
Dimensions (W \times H \times D)	129 mm \times 284 mm \times 337 mm
Mass	3.1 kg

Satellite speakers (For TH-P5)

Front speakers (SP-THP5F)	Type	3-Way Bass-Reflex Type (Magnetically-shielded Type)
	Speaker	11.5 cm cone × 1 4 cm cone × 1 1.5 cm cone × 1
	Power Handling Capacity	40 W
	Impedance	3 Ω
	Frequency Range	60 Hz to 20 000 Hz
	Sound Pressure Level	82 dB/W·m
	Dimensions (W × H × D)	146 mm × 246.5 mm × 208 mm
	Mass	2.2 kg each
Center speaker (SP-THP5C)	Type	1-Way Bass-Reflex Type (Magnetically-shielded Type)
	Speaker	6.5 cm cone × 2
	Power Handling Capacity	100 W
	Impedance	4 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	79 dB/W·m
	Dimensions (W × H × D)	250 mm × 85 mm × 91 mm
	Mass	0.82 kg
Surround speakers (SP-THP5S)	Type	1-Way Bass-Reflex Type
	Speaker	6.5 cm cone × 1
	Power Handling Capacity	40 W
	Impedance	3 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	72 dB/W·m
	Dimensions (W × H × D)	79.5 mm × 147 mm × 88 mm
	Mass	0.51 kg each

Satellite speakers (For TH-P3)

Front speakers (SP-THP3F)	Type	1-Way Bass-Reflex Type (Magnetically-shielded Type)
	Speaker	6.5 cm cone × 1
	Power Handling Capacity	40 W
	Impedance	3 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	75 dB/W·m
	Dimensions (W × H × D)	92 mm × 99 mm × 95.5 mm
	Mass	0.45 kg each
Center speaker (SP-THP3C)	Type	1-Way Bass-Reflex Type (Magnetically-shielded Type)
	Speaker	6.5 cm cone × 1
	Power Handling Capacity	100 W
	Impedance	4 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	76 dB/W·m
	Dimensions (W × H × D)	92 mm × 99 mm × 95.5 mm
	Mass	0.45 kg
Surround speakers (SP-THP3S)	Type	1-Way Bass-Reflex Type
	Speaker	6.5 cm cone × 1
	Power Handling Capacity	40 W
	Impedance	3 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	72 dB/W·m
	Dimensions (W × H × D)	92 mm × 99 mm × 95.5 mm
	Mass	0.48 kg each

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SECTION 1

PRECAUTION

1.1 Safety Precautions

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

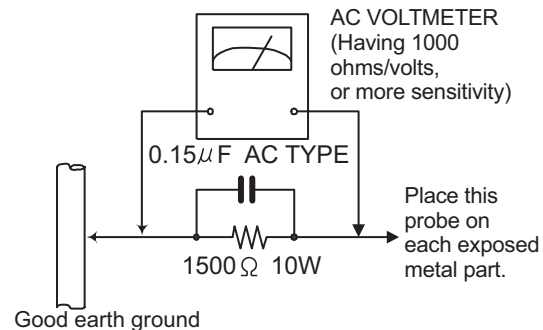
(5) Leakage shock hazard testing

After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 Ω per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

- (1) This equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.

Therefore, pay attention to such burrs in the case of pre-forming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (\blacksquare), diode (\blacksquare) and ICP (\bullet) or identified by the " Δ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Preventing static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.5.1 Grounding to prevent damage by static electricity

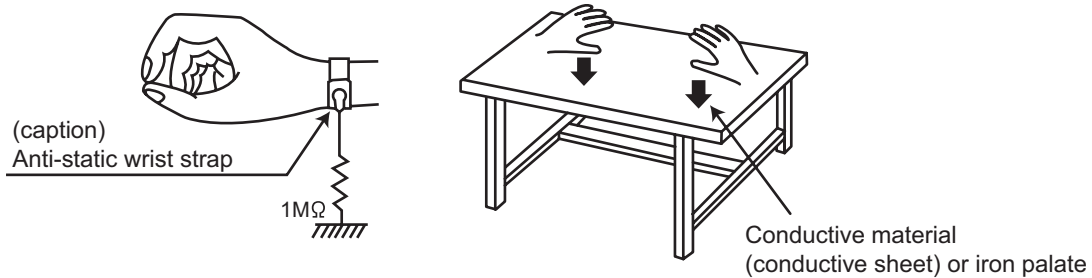
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products. Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup

- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

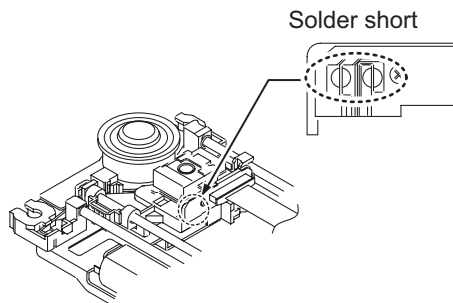
1.6 Handling the traverse unit (optical pickup)

- (1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
- (2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
- (3) Handle the flexible cable carefully as it may break when subjected to strong force.
- (4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.7 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the pickup unit.**

- Apply solder to the short land sections before the flexible wire is disconnected from the connector on the servo board. (If the flexible wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the flexible wire.



1.8 Important for laser products

1.9 Important for laser products

1.CLASS 1 LASER PRODUCT


2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The CD,MD and DVD player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.



CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

CAUTION : VISIBLE AND / OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

VARNING : SYNLIK OCH / ELLR OSYNLIK LASERSTRÅLING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD.
STIRRA EJ IN I STRÅLEN OCH BETRakta EJ STRÅLEN MED OPTISKA INSTRUMENT.

AVISO : RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO.
NO MIRAR FIJAMENTE EL HAZ NI OBSERVAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO.

ADVARSEL : SYNLIK OG / ELLER USYNLIK KLASSE 1M-LASERSTRÅLING VED ÅBNING.
SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.

VARO! : AVAT TAESSA OLET ALT TIINA NÄKYVÄLLE JA / TAI NÄKYMÄTÖMÄLLE LUOKAN 1M LASERSÄTEILYLLE.
ÄLÄ KATSO SUORAAN SÄTEESEEN TAI TARKASTELE SITÄ OPTISEN LAIT TEEN LÄPI.

ATTENTION : RAYONNEMENT LASER VISIBLE ET / OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT.
NE PAS FIXER LE FAISCEAU NI REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. (ENG)	VARNING SYNLIK OCH/ELLER OSYNLIK LASERSTRÅLING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRakta EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	AVISO RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO.NO MIRAR FIJAMENTE EL HAZ NI OBSERVAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	ADVARSEL SYNLIK OG/ELLER USYNLIK KLASSE 1M-LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER. (DNK)	VARO! AVATTAESSA OLET ALT TIINA NÄKYVÄLLE JA / TAI NÄKYMÄTÖMÄLLE LUOKAN 1M LASERSÄTEILYLLE. ÄLÄ KATSO SUORAAN SÄTEESEEN TAI TARKASTELE SITÄ OPTISEN LAIT TEEN LÄPI. (FIN)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS FIXER LE FAISCEAU NI REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)
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CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. (ENG)
ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS FIXER LE FAISCEAU NI REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)
AVISO RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO.NO MIRAR FIJAMENTE EL HAZ NI OBSERVAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)
ADVARSEL SYNLIK OG/ELLER USYNLIK KLASSE 1M-LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER. (DNK)
VARNING SYNLIK OCH/ELLER OSYNLIK LASERSTRÅLING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRakta EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)
VARO! AVATTAESSA OLET ALT TIINA NÄKYVÄLLE JA / TAI NÄKYMÄTÖMÄLLE LUOKAN 1M LASERSÄTEILYLLE. ÄLÄ KATSO SUORAAN SÄTEESEEN TAI TARKASTELE SITÄ OPTISEN LAIT TEEN LÄPI. (FIN)

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3 DISASSEMBLY

3.1 Main body

3.1.1 Removing the top cover (See Fig.1 and 2)

- (1) Remove the two screws **A** attaching the top cover of both side. (See Fig.1)
- (2) Remove the five screws **B** attaching the top cover of rear side. (See Fig.2)

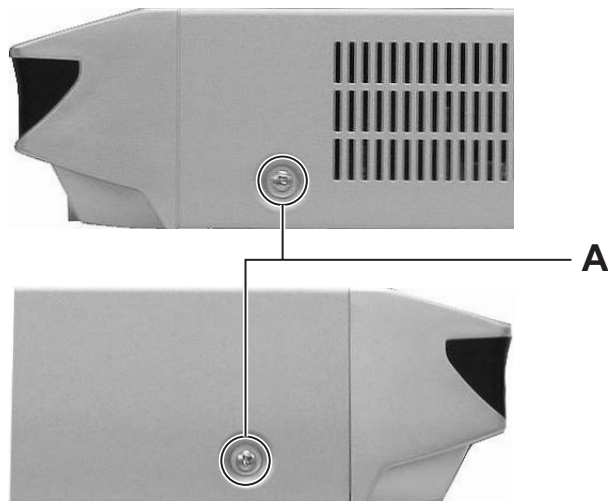


Fig.1

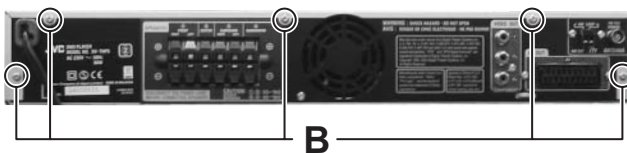


Fig.2

3.1.2 Removing the front panel assembly (See fig.3 to 5)

- (1) Remove the three screws **C** attaching the front panel assembly from bottom side. (See Fig.3)
- (2) Remove the screw **D** attaching the wire to power supply board. (See Fig.5)
- (3) Release the hook **a** of bottom side and hook **b** of both side of front panel assembly. (See Fig.4 and 5)

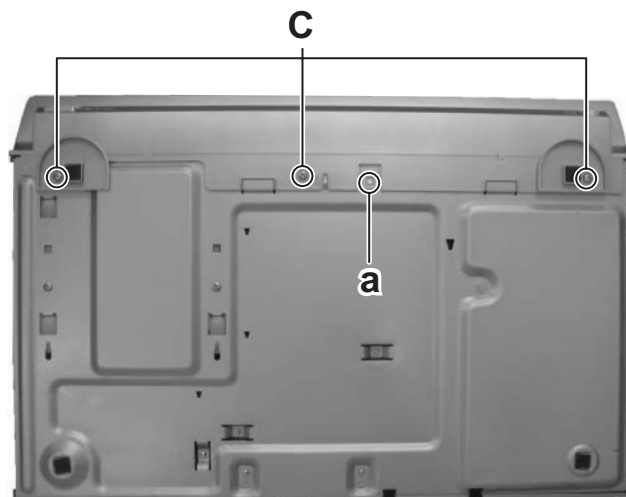


Fig.3

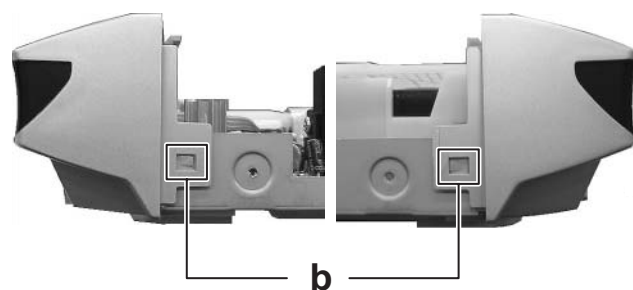


Fig.4

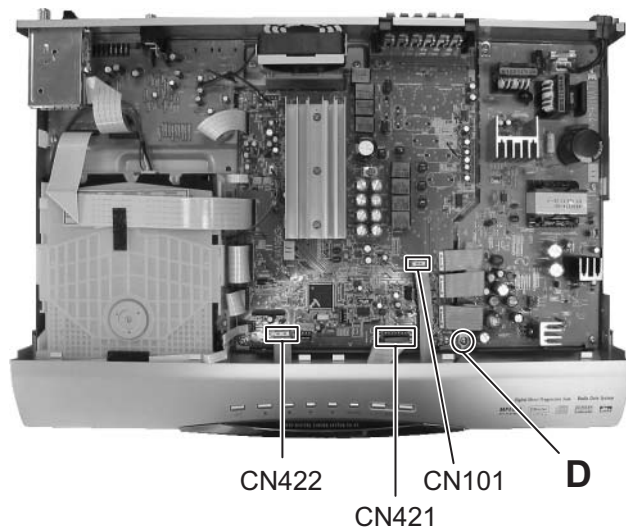


Fig.5

3.1.3 Removing the power supply board (See Fig.6)

CAUTION:

When remove the power supply board, do not touch the capacitor (C905) because it keep voltage.

- (1) Disconnect the parallel wires from connectors [CN101](#), [CN421](#) and [CN422](#) on the main board.
- (2) Disconnect the power cord connector [CN901](#) on the power supply board.
- (3) Remove the four screws **E** attaching the power supply board.
- (4) Release the power supply board from fastener.

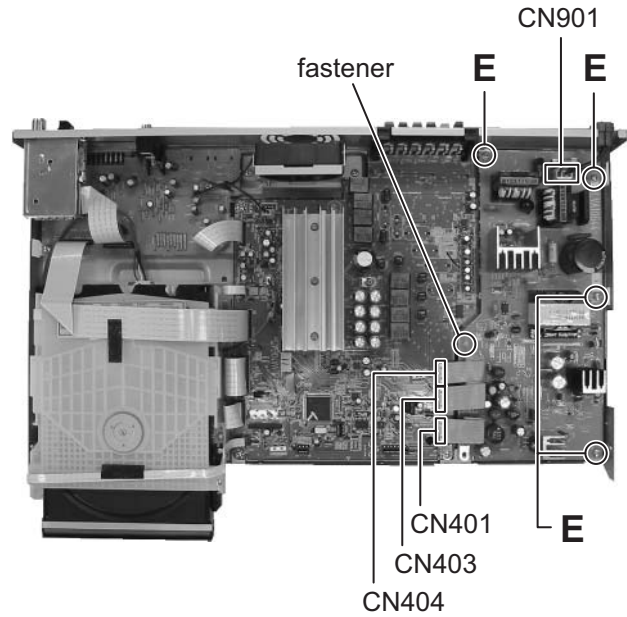


Fig.6

3.1.4 Removing the DVD mechanism assembly (See Fig.7 and 8)

- (1) Disconnect the card wires from connector [CN405](#), [CN411](#), [CN412](#), [CN413](#) and [CN414](#) of main board. (See Fig.7)
- (2) Remove the two screws **F** attaching the DVD mechanism assembly from bottom cover. (See Fig.8)
- (3) Press the hook **c** and slide out the DVD mechanism for direction the arrow. (See Fig.8)

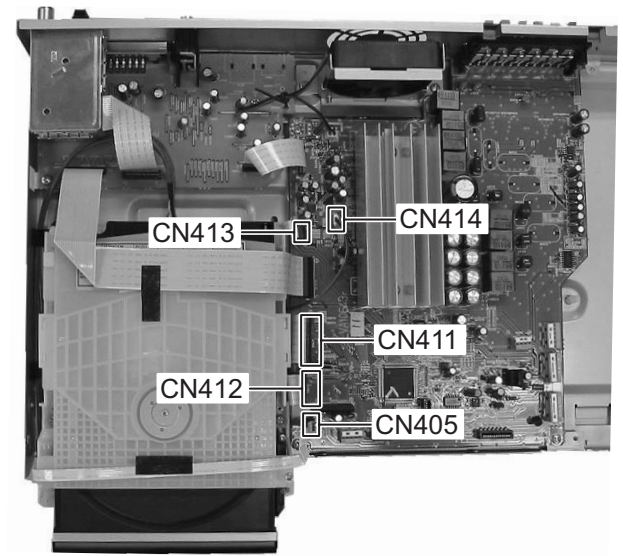


Fig.7

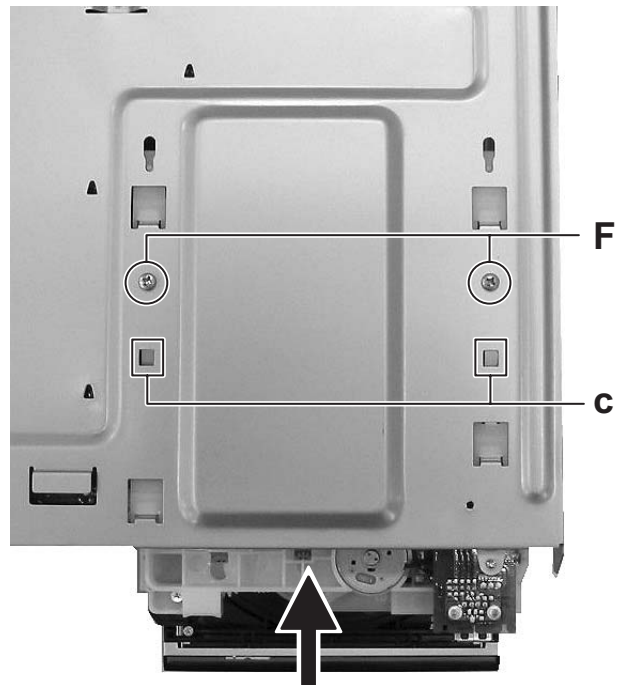


Fig.8

3.1.5 Removing the fan (See Fig.9)

- (1) Disconnect the connector [CN416](#) of main board.
- (2) Remove the two screws **C** attaching the fan to bottom cover.

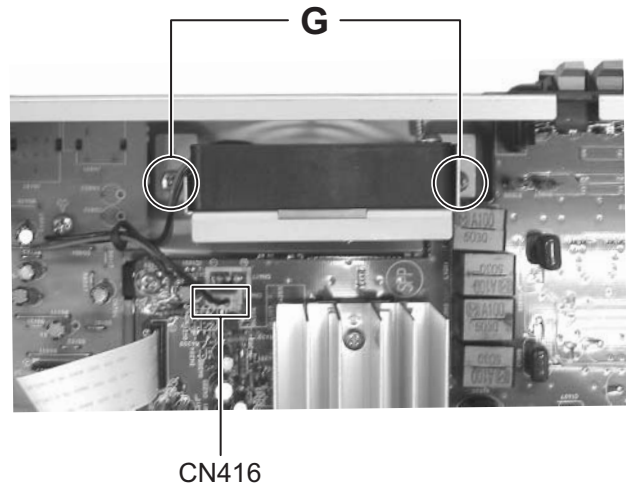


Fig.9

3.1.6 Removing the tuner pack (See Fig.10 and 11)

- (1) Disconnect the card wire from connector [CN652](#) of video board. (See Fig.10)
- (2) Remove the two screws **H** attaching the tuner pack from rear panel. (See Fig.11)

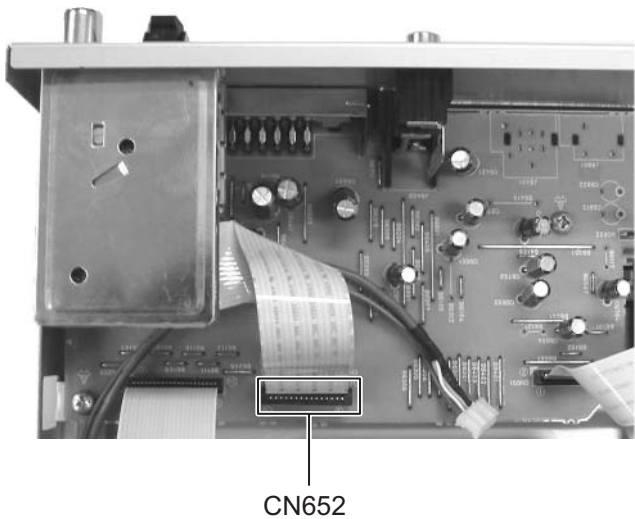


Fig.10

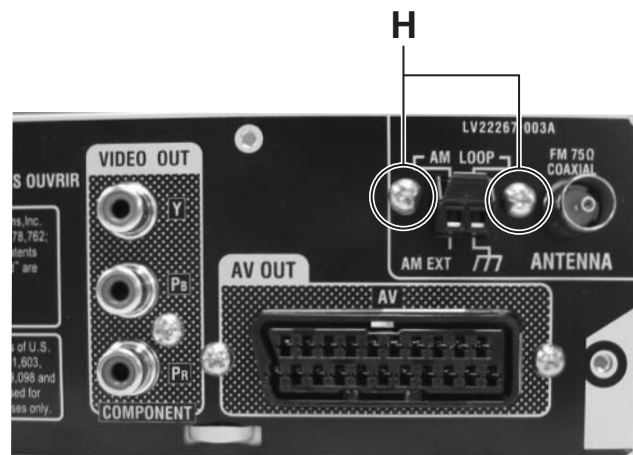


Fig.11

3.1.7 Removing the video board (See Fig.12 and 13)

- (1) Disconnect the card wire from connector [CN601](#) and [CN651](#). (See Fig.12)
- (2) Remove the two screws **J** attaching the video board. (See Fig.12)
- (3) Remove the three screws **K** attaching the video board from rear panel. (See Fig.13)

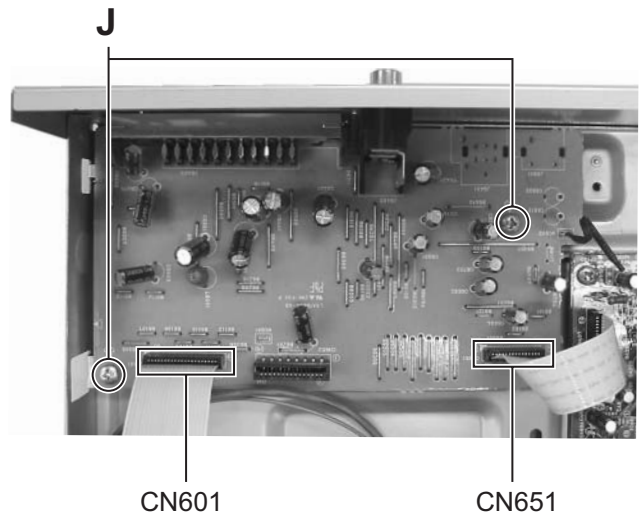


Fig.12

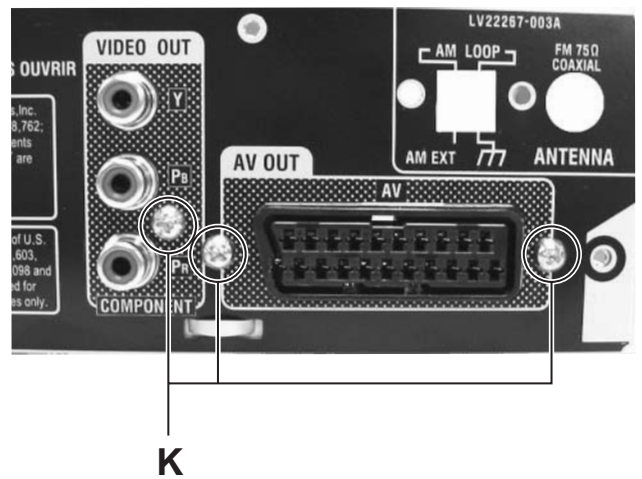


Fig.13

3.1.8 Removing the main board (See Fig.14 and 15)

- (1) Remove the four screws **L** attaching the main board. (See Fig.14)
- (2) Remove the two screws **M** attaching the main board from rear panel. (See Fig.15)

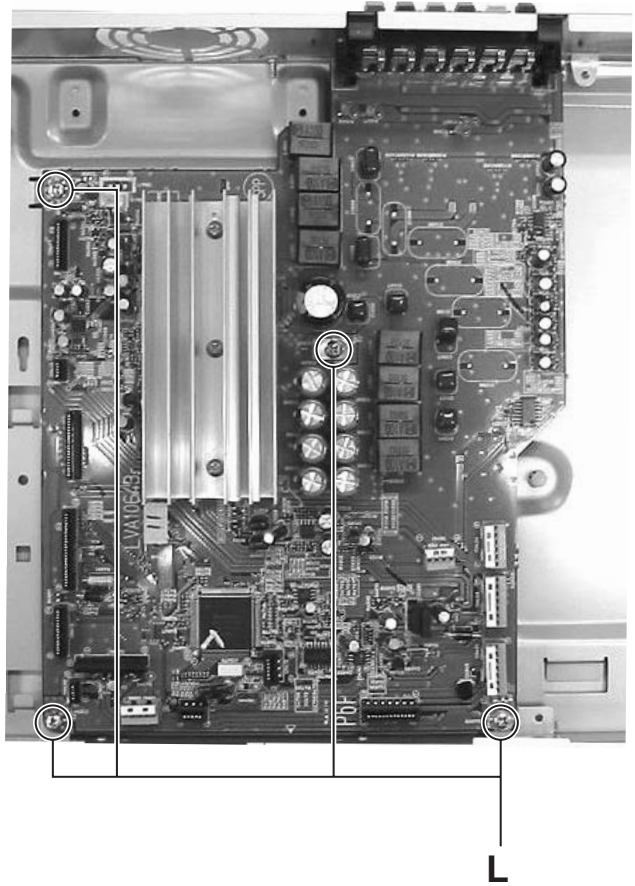


Fig.14

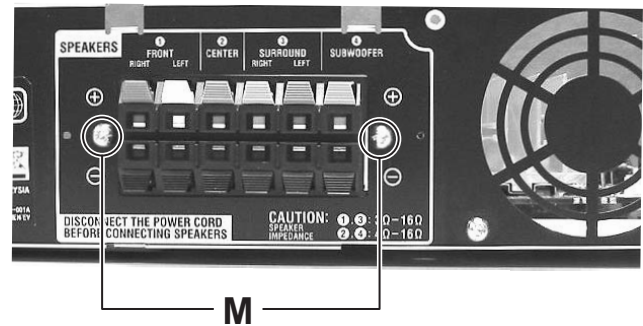


Fig.15

3.1.9 Removing the switch board

(See Fig.16)

- (1) Remove the three screws **N** attaching the switch board.

3.1.10 Removing the headphone board

(See Fig.16)

- (1) Remove the screw **P** attaching the headphone board.

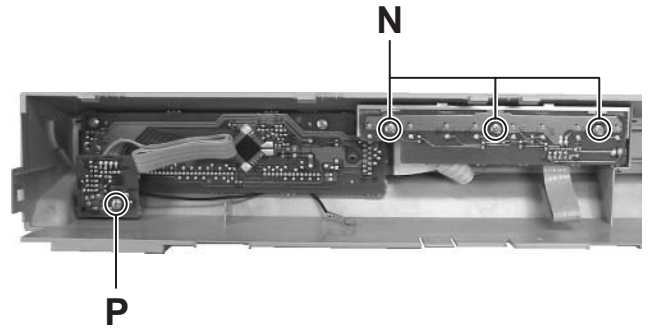


Fig.16

3.1.11 Removing the FL board

(See Fig.17)

- (1) Remove the three screws **Q** attaching the FL board.

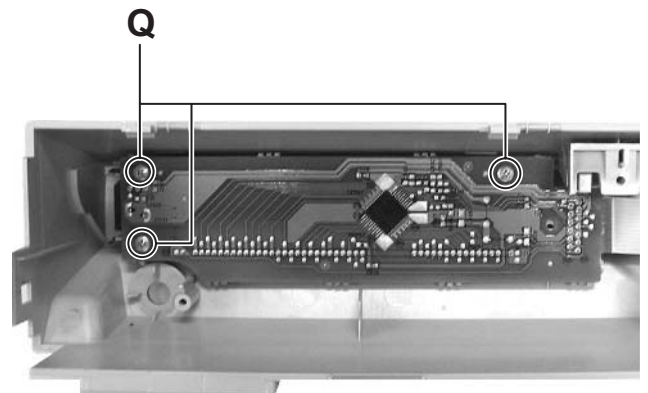


Fig.17

3.2 DVD mechanism

3.2.1 Removing the traverse mechanism

(See Fig.1 to 7)

- (1) Remove the two screws **A** attaching the tramecha holder from top side of DVD mechanism assembly. (See Fig.1)
- (2) Remove the two screws **B** attaching the DVD module board. (See Fig.2)
- (3) Remove the one screw **C** attaching the tramecha holder. (See Fig.3)
- (4) Through the DVD module board from mecha tramecha holder and take out the mecha holder. (See Fig.4)
- (5) Remove the four screws **D** attaching the traverse mechanism. (See Fig.5)
- (6) Solder the solder part of DVD pickup. (See Fig.6)
- (7) Disconnect the card wire from [CN101](#) and [CN201](#) on the DVD module board. (See Fig. 7)

Caution:

- Solder the short land section on the DVD pickup before disconnecting the card wire from the connector on the DVD pickup. If the card wire is disconnected without attaching solders, the pickup may be destroyed by static electricity.
- When attaching the DVD pickup, be sure to remove solders from the short land section after connecting the card wire to the connector on the DVD pickup.

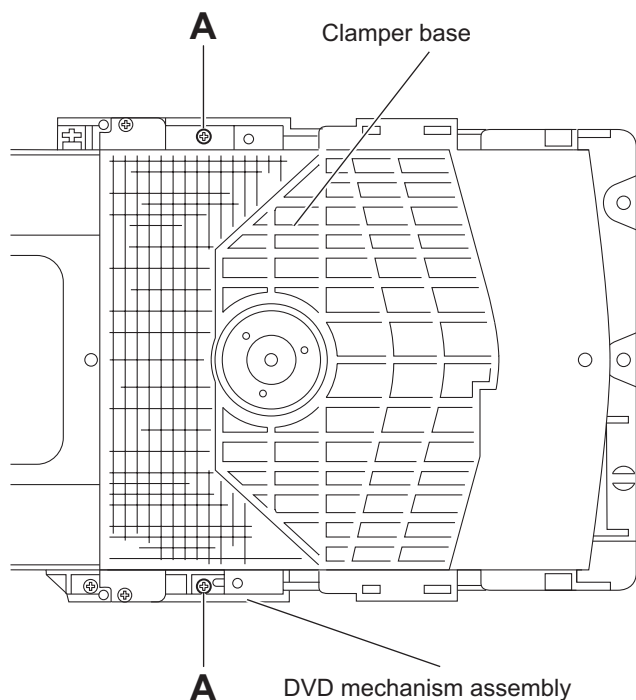


Fig.1

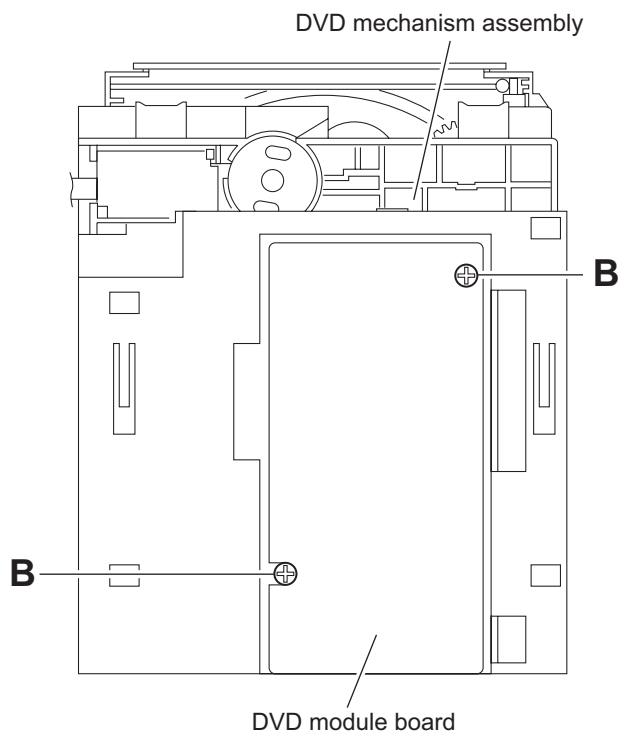


Fig.2

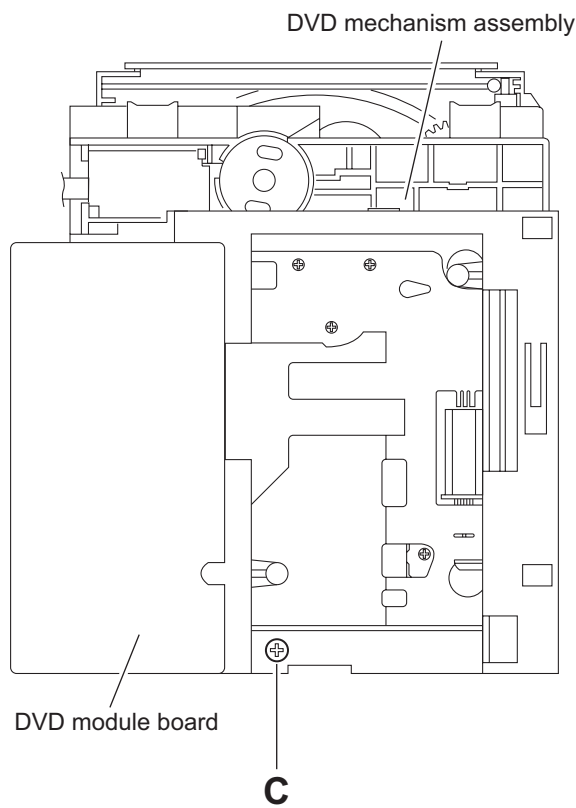


Fig.3

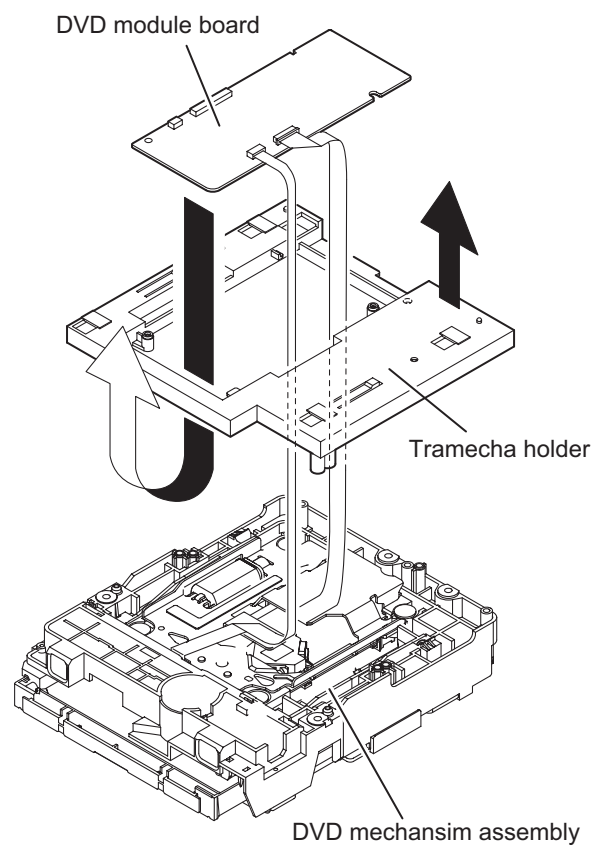


Fig.4

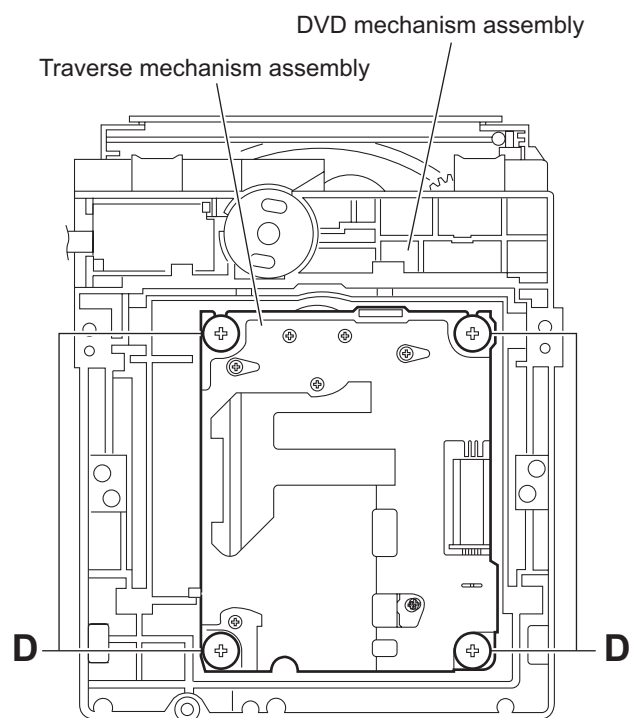


Fig.5

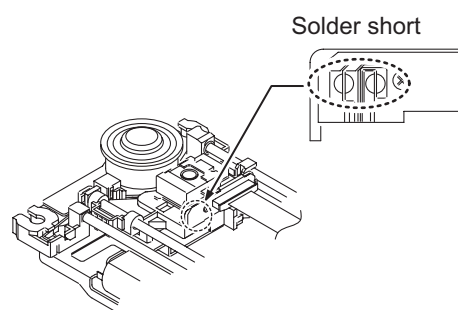


Fig.6

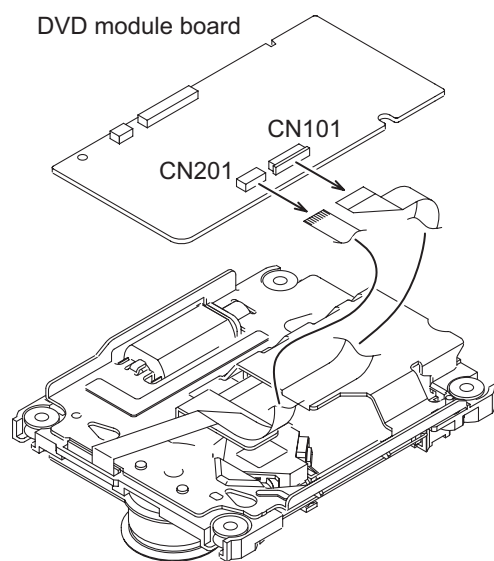


Fig.7

3.2.2 Removing the pickup assembly (See Fig.8 to 12)

- (1) Remove the two rod springs pressing the guide shaft. (See Fig.8)
- (2) Remove the screw **E** and **F** attaching the spring holder. (See Fig.9)
- (3) Remove the read screw from traverse mechanism assembly. (See Fig.10)

Caution:

When remove the lead screw, do not loss the middle gear. (See Fig.11 and 12)

- (4) Remove the bar spring pressing the shaft. (See Fig.11)
- (5) Take out the pickup assembly from traverse mechanism chassis by order. (See Fig.12)

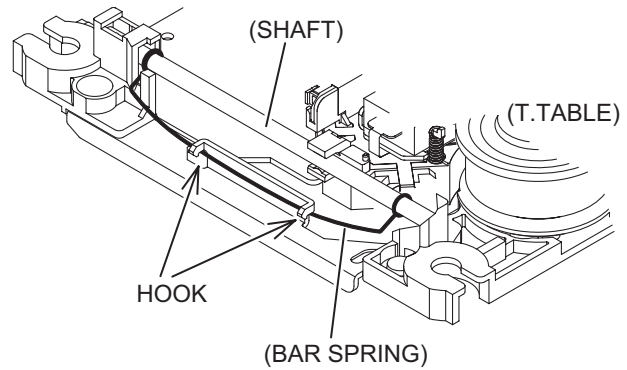


Fig.11

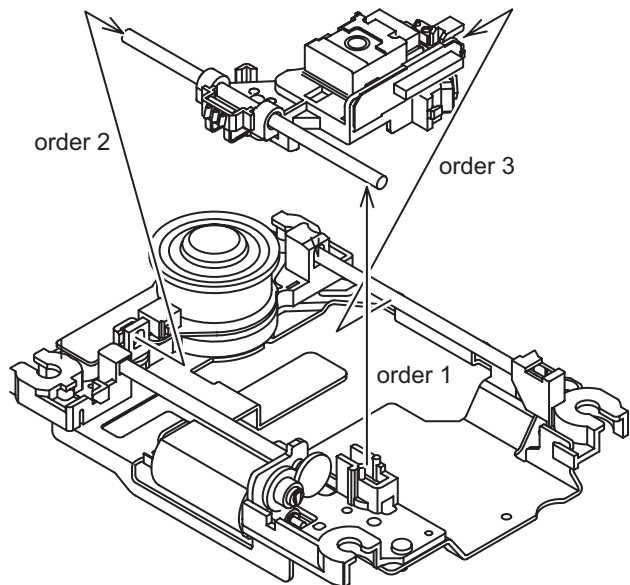


Fig.12

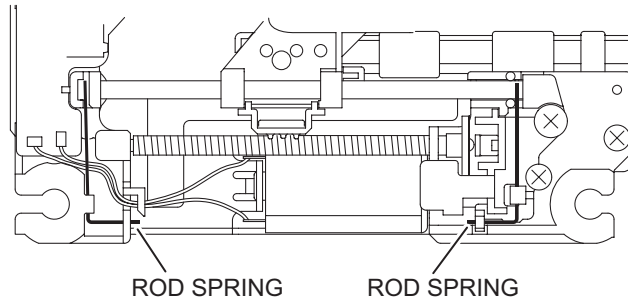


Fig.8

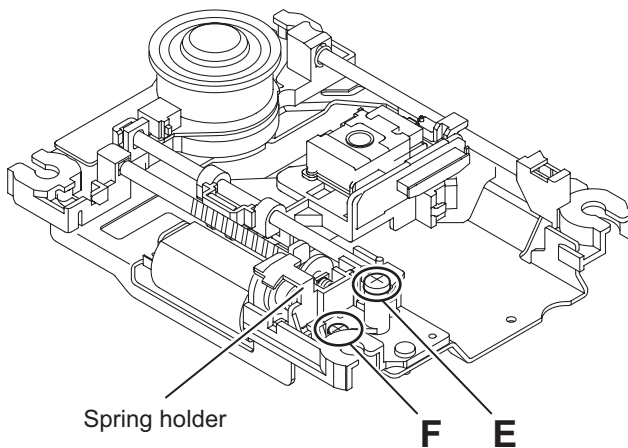


Fig.9

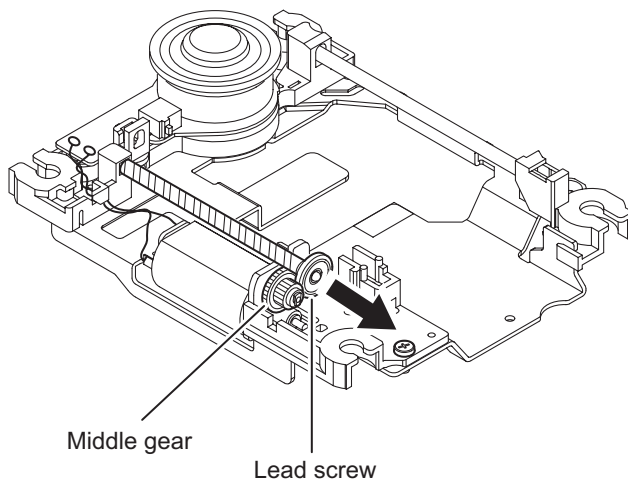


Fig.10

3.2.3 Removing the feed motor assembly

(See Fig.13)

- (1) Remove the one screw **G** attaching the feed motor assembly.
- (2) Remove the feed motor wires from solder part of spindle motor board.

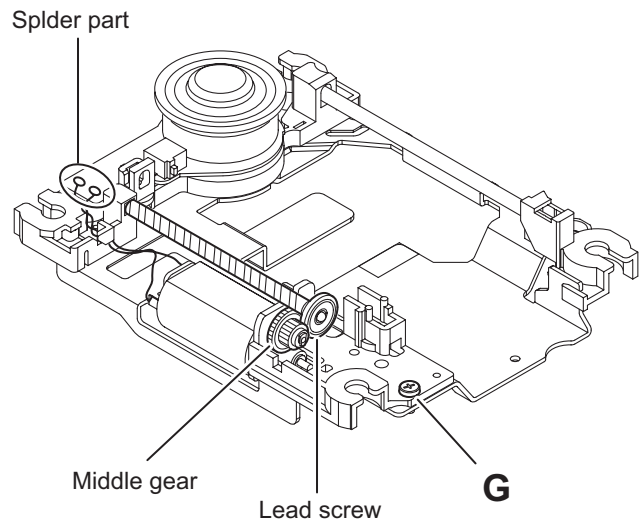


Fig.13

3.2.4 Removing the spindle motor assembly

(See Fig.14)

- (1) Remove the two screws **H** attaching the spindle motor from spindle motor board.

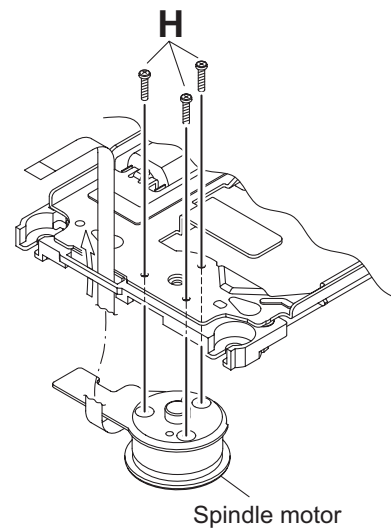


Fig.14

3.2.5 Removing the tray assembly (See Fig.15 and 16)

- (1) Remove the two screws **J** attaching the clamber base.
(See Fig.15)
- (2) Remove the one screw **K** attaching the shaft guide from
bottom side. (See Fig.15)
- (3) Remove the two screws **L** attaching the shaft guide from
top side. (See Fig.16)

Caution:

When attach the tray assembly, boss of loading sub assembly
should attach to guide of bottom side at tray assembly. (See
Fig.16)

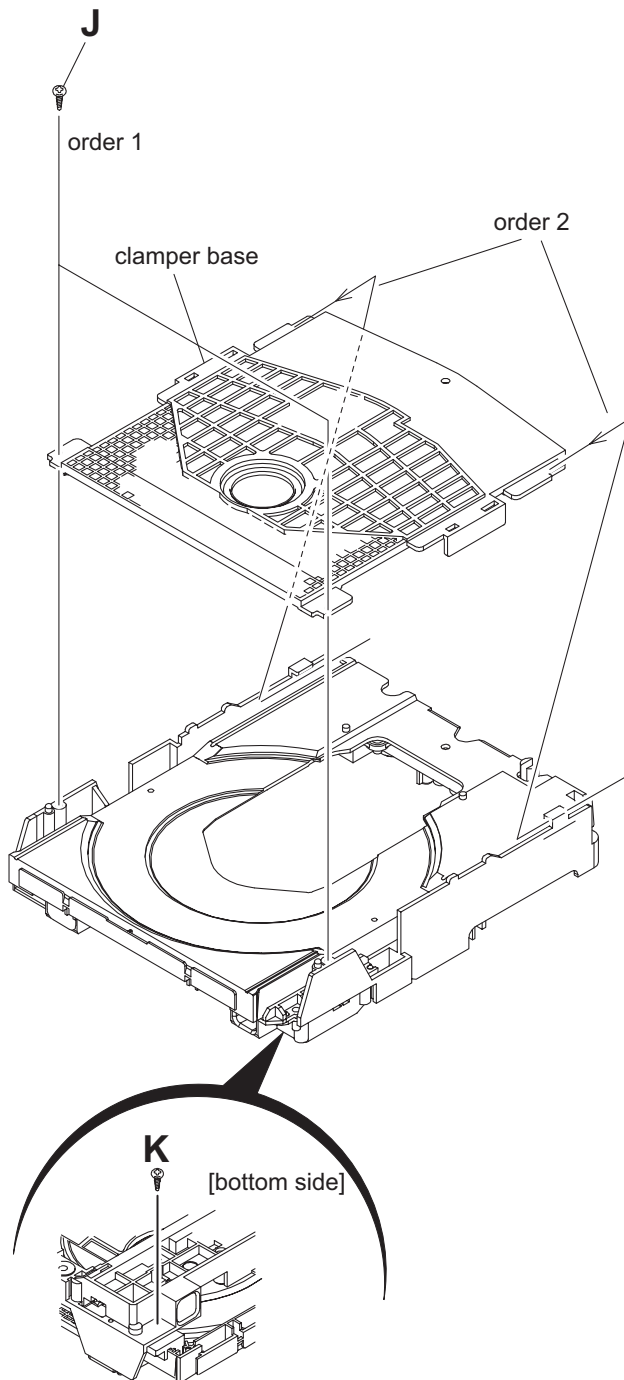


Fig.15

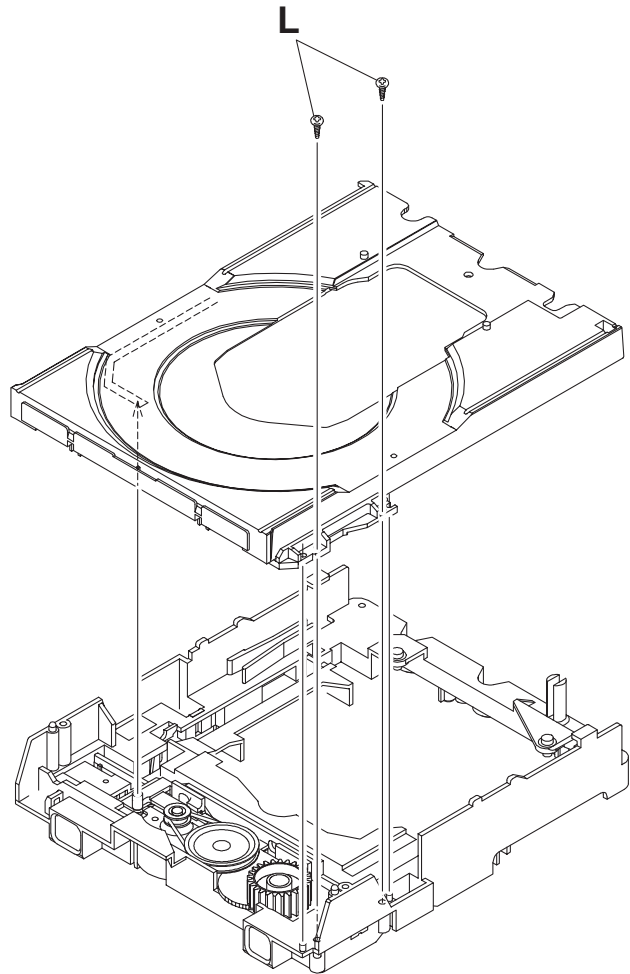


Fig.16

SECTION 4 ADJUSTMENT

4.1 ATTENTION IN SERVICE OF DVD SECTION

- (1) When pickup, Flash ROM ,DVD module board were changed, initialize EEPROM by all means.
- (2) When full initialization was excuted, excute learning with a DVD test disc by all means.
 Test disc : VT-501, VT-502
 Learning method : It is adjusted automatically by normal playback of a DVD disc.

4.2 TEST MODE

4.2.1 OUTLINE

To the set which is using the DVD module, in order to perform common correspondence in production, TEST mode is prepared.
 Table 1 is corresponded in TEST mode.

MODE	CONTENTS
The destination, a region, study state check mode	Indication the distination code, region number and study state fo DVD micon.
NORMAL initialize, FULL initialize	Mode of DVD micon initialize. Initialize has NORMAL initialize and FULL initialize. NORMAL initialize : Initialize the value of user setting item, like a indication contents of SETUP OSD. FULL initialize : Plus the contents of study which are carrying out the memory by FRONT END for lead shortening are initialized for NORMAL initialize contents.
Device key write (CPPM, CPRM)	For device key writing mode. Device key have CPPM(DVD Audio) and CPRM(VR).
Device key check sum indication mode	Indication the wrote device key check sum. Indication this value, it can check the device key was wrote or not.
Micon version indication mode	Indication System micon, DVD micon, other ROM version. With a set, correspondence and the contents of correspondence shall be individual, and shall be decided.
FL all on mode	Mode of FL (LCD) all on. With a set, correspondence and the contents of correspondence shall be individual, and shall be decided.
FRONT END check mode	Mode of relation of FRONT END.

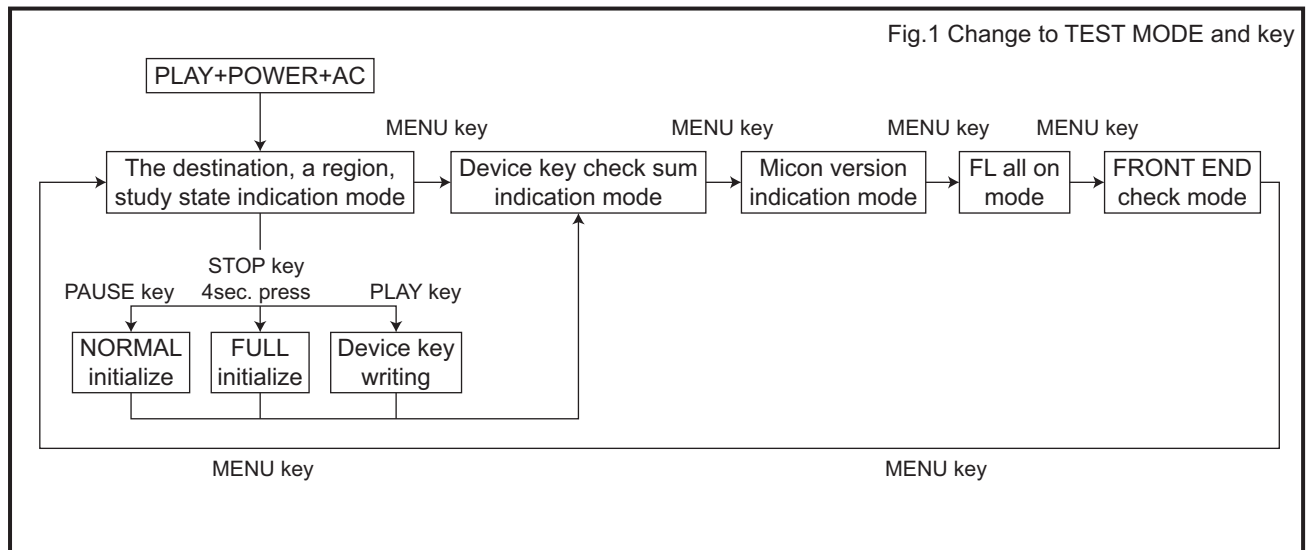
Table 1. Contents corresponding to TEST mode.

4.2.2 SET OPERATE

TEST mode performs correspondence by operation specially so that a user cannot enter.

- * TEST MODE start should be press PLAY key and POWER key of main unit together and keep condition, connect AC.
- * After set up TEST MODE, mode select by MENU key.

The changes to the key in TEST mode are shown in Fig. 1.



(*1) : Shift from destination, region and study state indication mode to NORMAL initialize, FULL initialize and device writing mode should only can main unit key.

4.2.3 PROCESS

Below, FL (LCD) display to operation and communication with a DVD back end micon are shown.

* Since the number of beams changes with sets about FL (LCD) display, also set differing from the contents of specification to O.K.

* Since there are arrangement and a relation of existence with a set also about a key, also set differing from the contents of specification to O.K.

STEP	OPERATION	MOVEMENT	FL (LCD) indication												
			1	2	3	4	5	6	7	8	9	10	11	12	13
1	Release AC, press PLAY & POWER key together of main unit.														
2	Keep STEP 1, connect AC.	The destination, a region, study state indication mode. Indication the destination by TEST mode power on.	T		J	C	#		*	*					
①	Press PAUSE key of main unit. NORMAL initialize		T		J	C	#		*	*					
②	Long press(4sec) STOP key of main unit. FULL initialize		T		J	C	#		*	*					
3	Press MENU key of remocon.	Device key check sum indication mode. Indication check sum of device key for FL. (4byte)	①	②	③	④	⑤	⑥	⑦	⑧					
4	Press MENU key of remocon.	Micon version indication mode. Indication the micon version for FL.	a	b	b		c	c	c	c					
5	Press MENU key of remocon.	FL all on mode. All on the FL and LED.	C	H	E		C	K							
6	Press MENU key of remocon.	FRONT END check mode. Indication the FRONT END check mode for FL.	C	H	E		C	K							
①	Press 1 at 10 key of remocon.	Disc startup and through playback (Playback starts from the start position).	C	H	E		C	K							
②	Press 2 at 10 key of remocon.	Existence of WOBBLE. 0 : WOBBLE_NO_CHECK (No check) 1 : WOBBLE_PRESS_MEDIA (press) 2 : WOBBLE_MINUS_MEDIA (DVD-R/-RW media) 3 : WOBBLE_PLUS_MEDIA (DVD+R/+RW media)	*	*	*	*	*	*	*	*					
③	Press 3 at 10 key of remocon.	Port check mode (TRACK,INDEX,DEMP,COPY) 1 : INDEX Port = High 2 : TRACK Port = High 3 : COPY Port = High 4 : DEMPT Port = High	*	*	*	*	*	*	*	*					
④	Press 4 at 10 key of remocon.	CD_LD on & Laser current indication.	*	*	*	*	*	*	*	*					
⑤	Press 5 at 10 key of remocon.	DVD_LD on & Laser current indication.	*	*	*	*	*	*	*	*					
⑥	Press 6 at 10 key of remocon.	DVD_SL x 1 jitter measurement mode.	*	*	*	*	*	*	*	*					
⑦	Press 7 at 10 key of remocon.	Memory backup contents (0x00-0x63) indication (BWD)	*	*	*	*	*	*	*	*					
⑧	Press 8 at 10 key of remocon.	Backup memory contents (0x00-0x63) indication (FWD)	*	*	*	*	*	*	*	*					
⑨	Press 9 at 10 key of remocon.	Temperature sensor (AD value) indication.	*	*	*	*	*	*	*	*					
⑩	Press 10 at 10 key of remocon.	DVD-DL (parallel, opposite), Serch & jitter measurement of the specified position of DVD-SL.	*	*	*	*	*	*	*	*					
⑪	Press 0 at 10 key of remocon.	MONITOR outout select. 1 : SRV_MONI_CIRC 2 : SRV_MONI_SERVO 3-5 : SRV_MONI_ANALOG 6-7 : SRV_MONI_DRC 8-11 : SRV_MONI_SERVO_JIG 12 : SRV_MONI_DEFAULT	*	*	*	*	*	*	*	*					

STEP	OPERATION	MOVEMENT	FL (LCD) indication												
			1	2	3	4	5	6	7	8	9	10	11	12	13
6	Press +10 at 10 key of remocon.	BCA READ CHECK 0 : During BCA READ 1 : BCA READ OK 2 : BCA SEEK ERROR 3 : BCA READ ERROR 4 : SPINUP adjustment ERROR	*	*	*	*	*	*	*	*					
	⑫									↑					
	⑬	Press STOP key of main unit/remocon.		C	H	E	C	K							
	⑭	Press OPEN/CLOSE key of main unit/remocon.													
7	Press PLAY key of main unit/remocon.	Disc playback.	*	*	*	*	*	*	*	*					
	⑮														
7	Press MENU key of remocon.	Return to STEP2.													
	Press POWER key of main unit.	Releasr the TEST MODE.													

*1 Mode toggle by press MENU key.

*2 STEP2-3 and STEP3 are only for DVD-AUDIO or VR correspondence model.

4.3 Key special mode

Mode name	Operation	Function
Tuner 9k/10k select (U*version)	Press STOP key & PLAY key together at TUNER AM then 9kHz step.	9kHz/10kHz step select of TUNER AM band.
	Press STOP key & PAUSE key together at TUNER AM then 10kHz step.	
TRAY LOCK	Press STOP key & EJECT1 key together at P.OFF.	DO the TRAY LOCK mode select. Temporaly P.ON operation, select "LOCKED", "UNLOCKED". (Not done P.ON operation). Transience (2sec.) indication end, and then return to P.OFF mode. When press the EJECT key at LOCK mode, at P.OFF condition tempraly P.ON operation and then transience (2sec.) indication "LOCKED". At P.ON condition, transience (2sec.) indication "LOCKED".
DVD TEST MODE	At AC off line condition, press PLAY+POWER together and keep condition, connect AC.	"Operation to TEST mode to on of DVD backend. Operation of internal TEST MODE is refer the TEST mode."
SYSTEM TEST MODE	At AC off line condition, press PAUSE+POWER key together and keep condition, connect AC.	"Set to speaker measurement mode.At source AM, operation the beat cut by remote controller.Other operation is as same as normal condition. Mode release by POWER OFF."
AVC ROM-CORE MODE	At AC off line condition, press STOP+PAUSE key together and keep condition, connect AC.	Into the AV compulink rom-core rewrite mode.

4.4 Remocon special mode

Mode name	CODE	Operation	Function
COLD START	B330	2-times input at P.OFF.	"Fix by 2 time input, operation temporaly P.ON and then transience(3sec.) indication "COLD SET". Indication end, done the P.OFF mode. AC to off line, operation the COLD START.B330 : remote controller press POWER + STOP + 0 key together."
FL all on Preset frequency writeing	B331	Input at P.ON.	"Rewrite preset frequency, LED on chek(each 300ms), FL all onLED on turn : STANDBY - ILLUMI - REMOCON<VOL+> - <VOL->Volume control of key input, keep high-speed mode until POWER OFF. B331 : Remocon POWER + STOP + 1 key together"
Version indication	B33E	Input at P.ON.	"Indication turn Syscon version - Unit version - Distination, Chip select by transience(5 sec.). Syscon version : "SC ## \$" (## : Sys version,\$: Sys ROM-core) Unit version : "BE %%%%"(%%%% : Unit version) Distination, Chip select : "\$\$ %%"(\$\$: sys distination, % : "P3" or "P5" or "P7") B33E : Press remocon POWER + STOP + 10 key together."

SECTION 5

TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.



Victor Company of Japan, Limited
Audio/Video Systems Category 10-1, 1chome, Ohwatari-machi, Maebashi-city, 371-8543, Japan

(No.MB512)



Printed in Japan
VPT

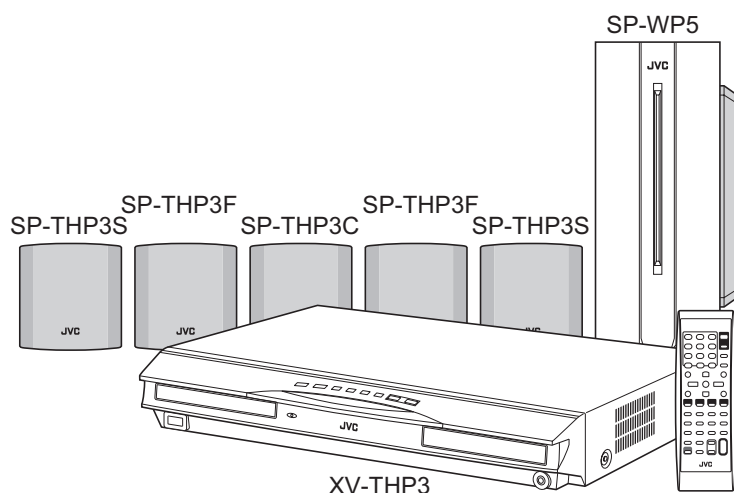
JVC

SCHEMATIC DIAGRAMS

DVD DIGITAL CINEMA SYSTEM

TH-P3A, TH-P3US, TH-P3UB TH-P3UW, TH-P3UX, TH-P3UY TH-P3UJ, TH-P3UG, TH-P3UN

CD-ROM No.SML200607



MPEG-4
ASF PLAYBACK

DVD
VIDEO

COMPACT
disc
SUPERVIDEO

DOLBY
DIGITAL
PRO LOGIC II

DIGITAL
dts
SURROUND

DIVX

DIVX
ULTRA

Digital Direct Progressive Scan

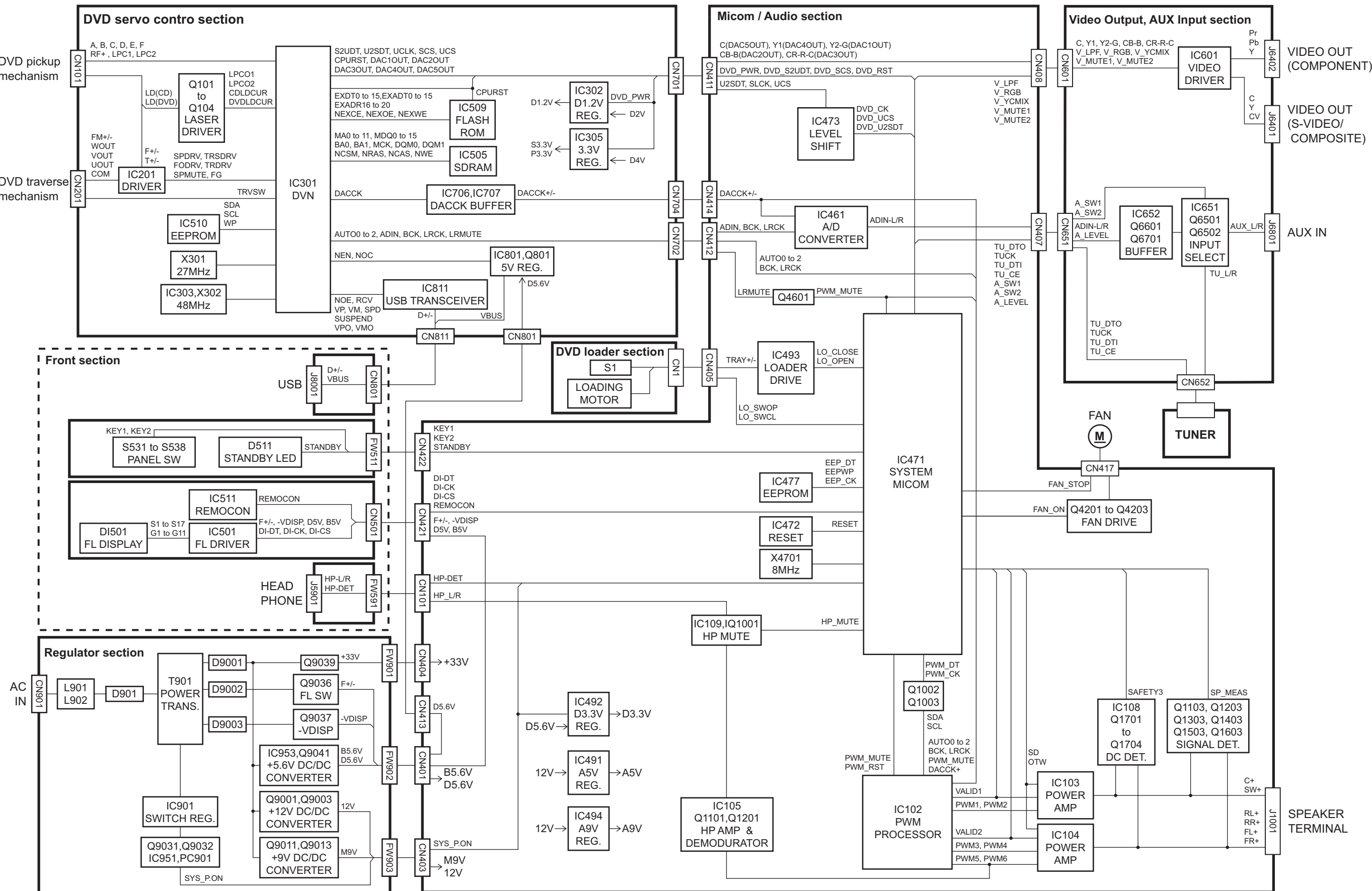
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Contents

Block diagram	2-1
Standard schematic diagrams	2-2
Printed circuit boards	2-10 to 12

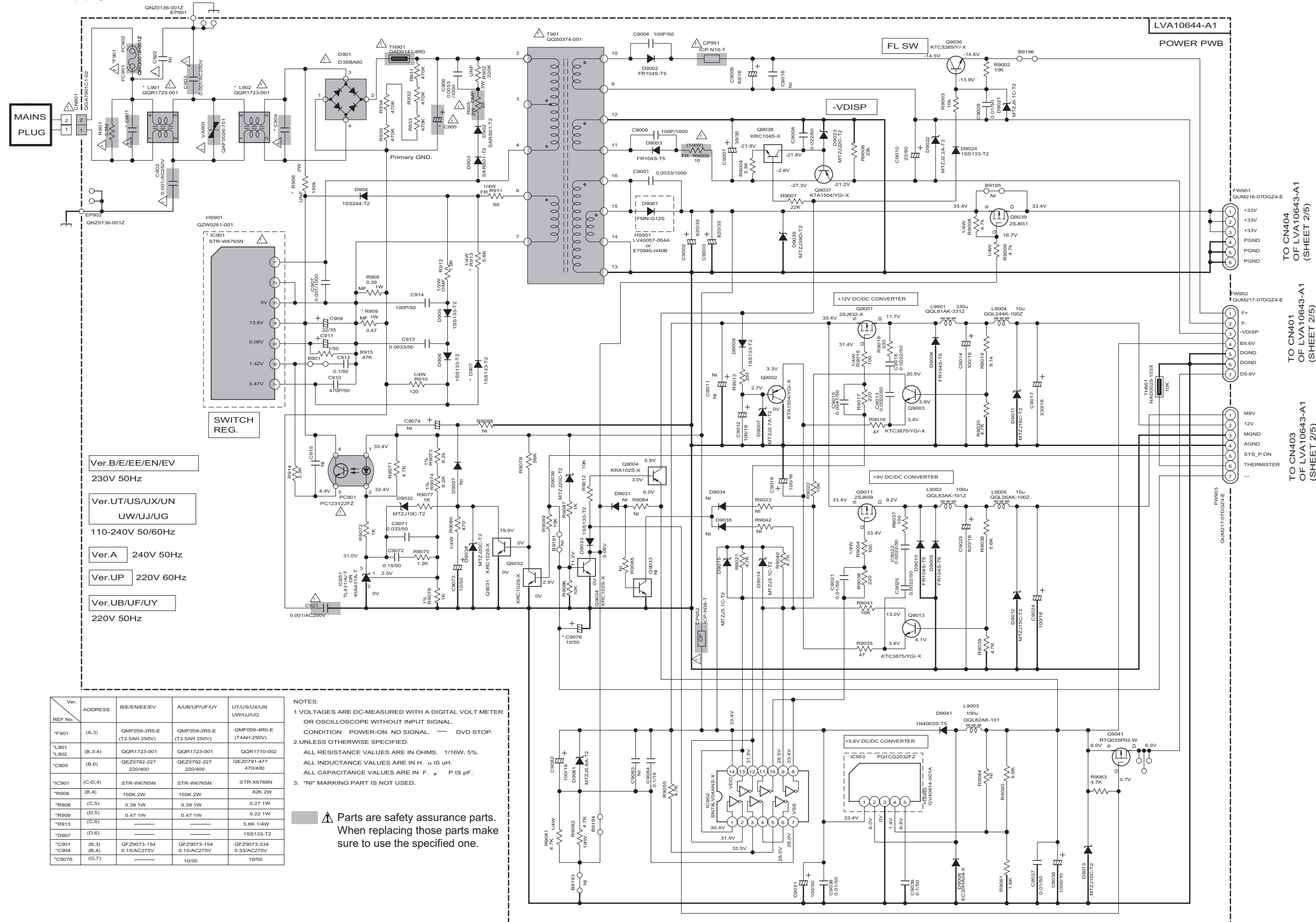
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (▬) and ICP (●) or identified by the "A" mark nearby are critical for safety.

Block diagram

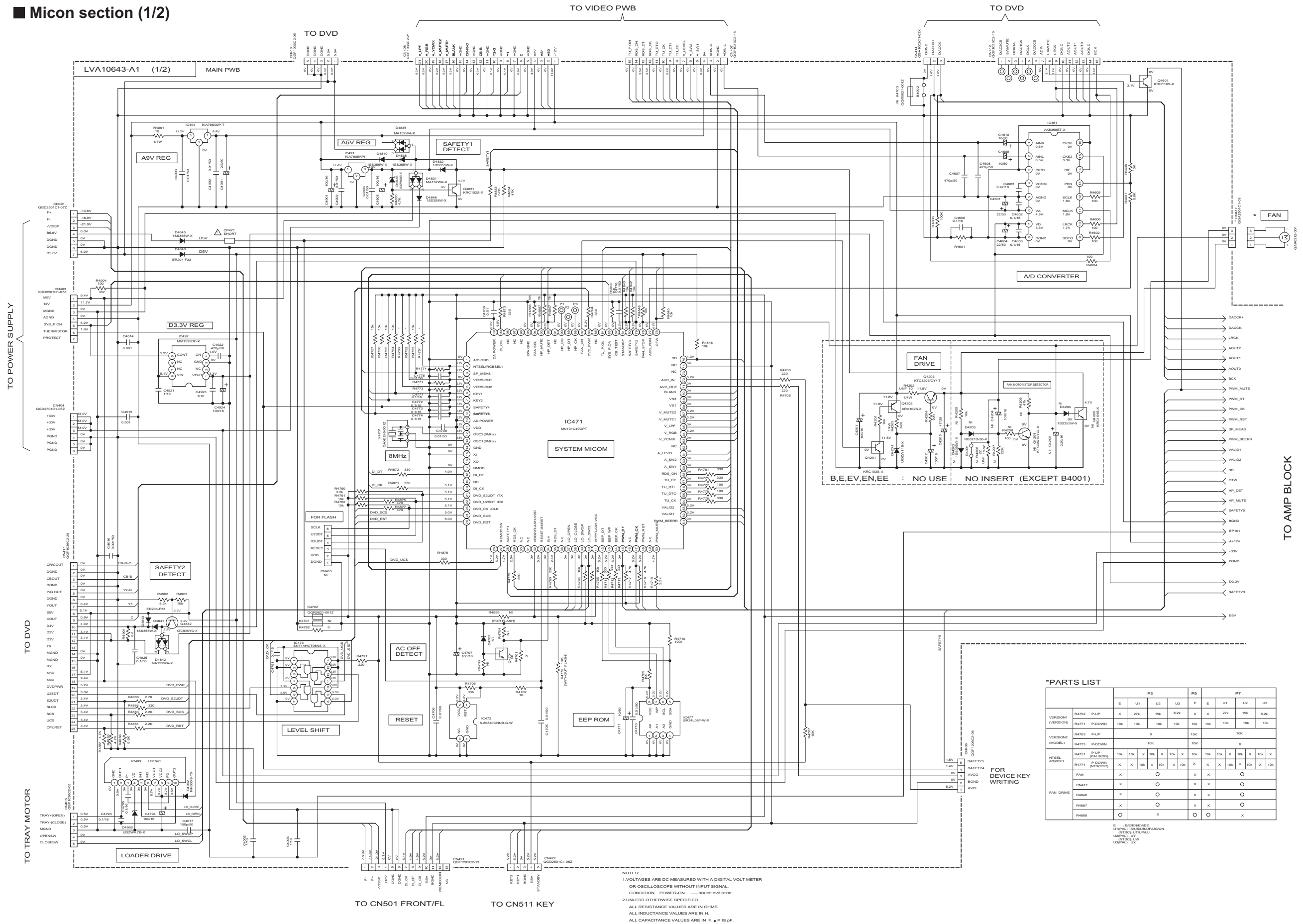


Standard schematic diagrams

■ Power supply section



Micon section (1/2)



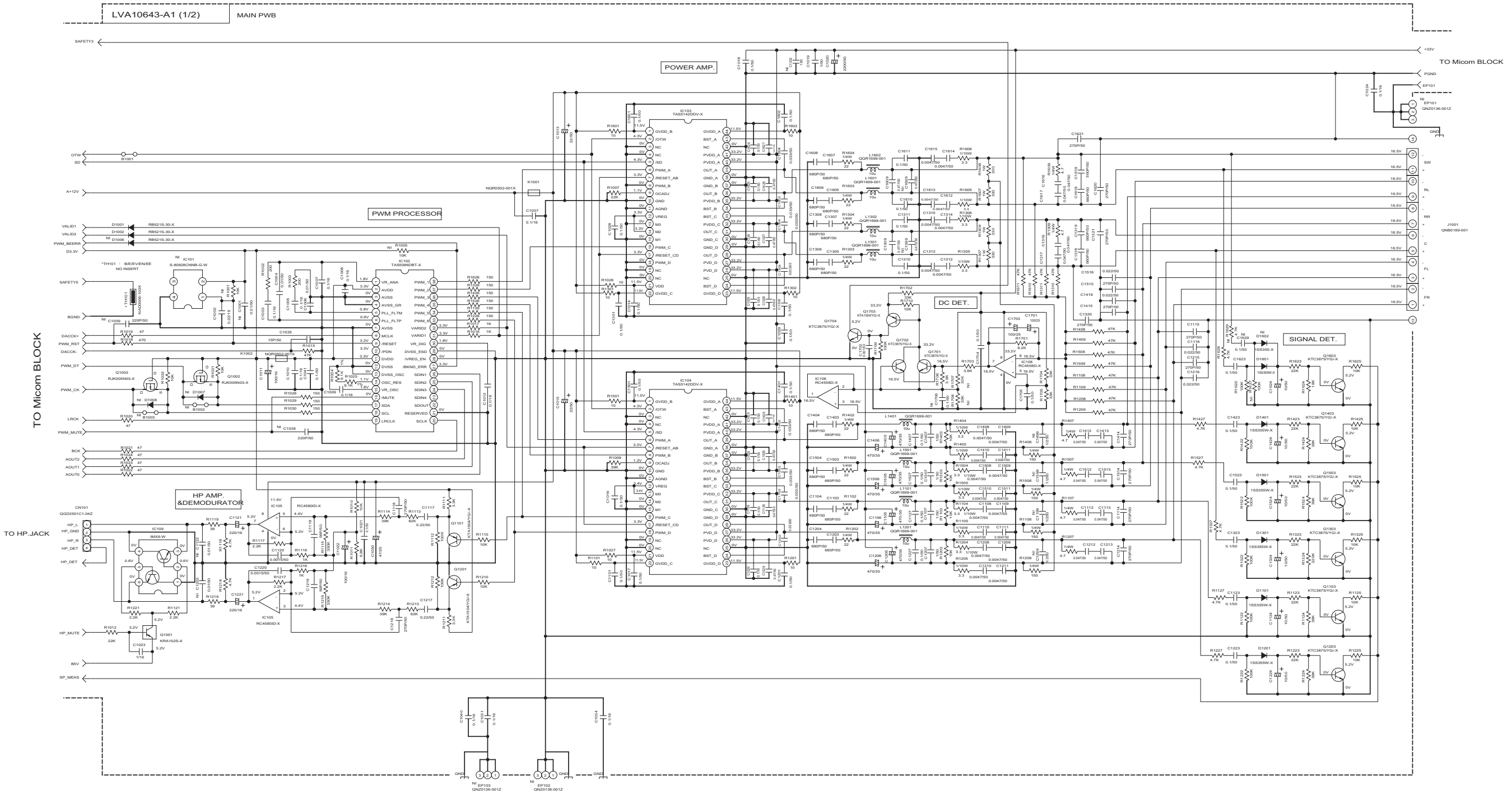
*PARTS LIST

		P3				P5		P7			
		E	U1	U2	U3	E	U1	U2	U3		
VERSION1 (VERSION)	R4752 P-LIP	X	27K	15K	8.2K	X	X	27K	15K	8.2K	
	R4771 P-DOWN	10K	10K	10K	10K	10K	10K	10K	10K	10K	
VERSION2 (MODEL)	R4753 P-LIP	X				15K		15K			
	R4773 P-DOWN	15K				10K		X			
NTSEL RMODEL	R4751 P-LIP (PAL/RGB)	10K	10K	X	10K	X	10K	10K	X	10K	
	R4774 P-DOWN (NTSC/RGB)	X	X	10K	X	10K	X	X	10K	X	
FAN DRIVE	FAN	X		○	X	X			○		
	○	X				○	X	X		○	
	R4846	X		○		X	X		○		
	R4887	X		○		X	X		○		
	R4888	○		X			○	○		X	

E: BISENIEVE
U1(PAL): AUCUBURUPUGUN
U2(PAL): U1UPURU
U3(PAL): U1UPURU
U4(PAL): U1UPURU

NOTES:
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION POWER-ON SOURCE DVD STOP
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN F, P 15 pF.

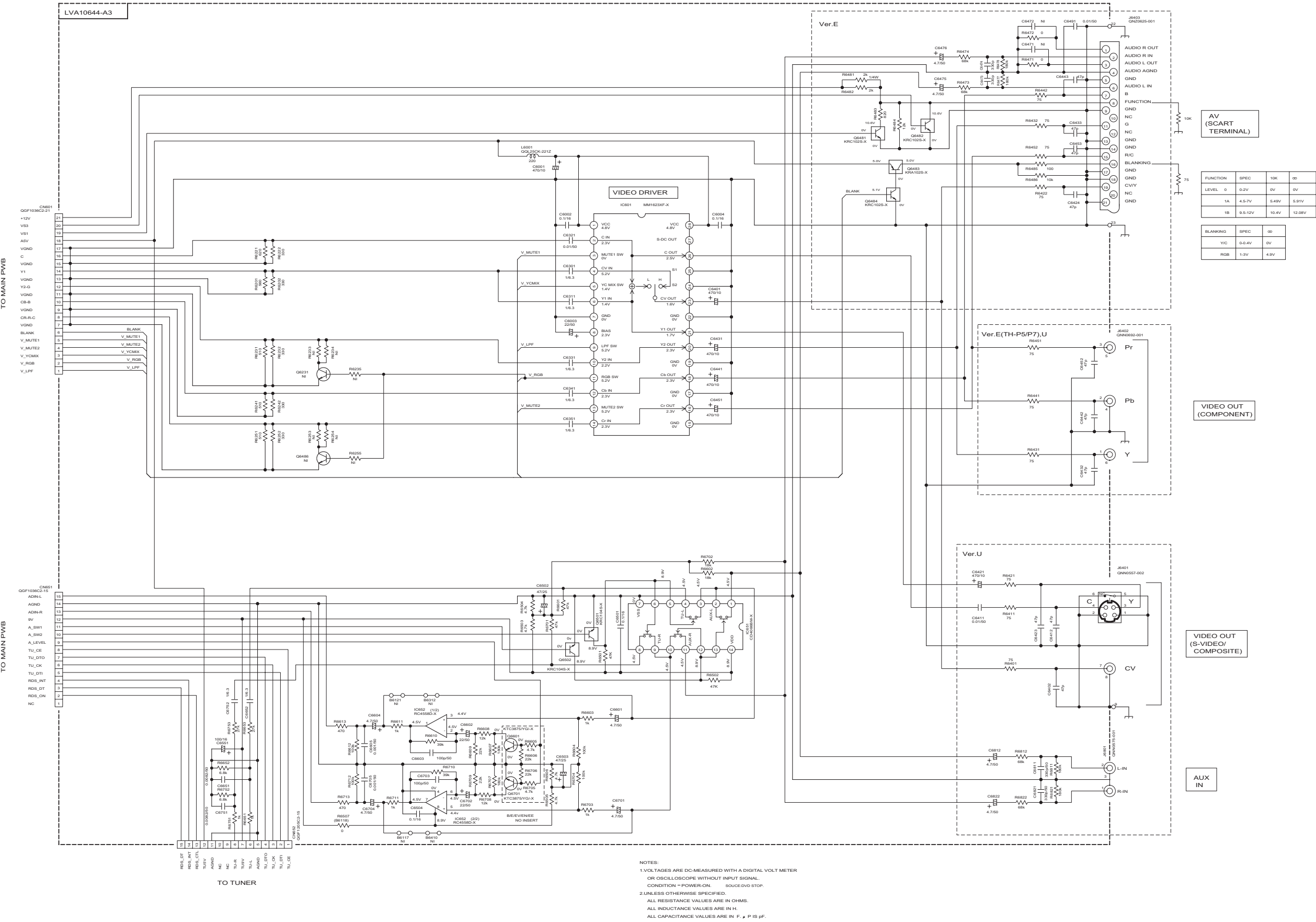
■ Micon section (2/2)



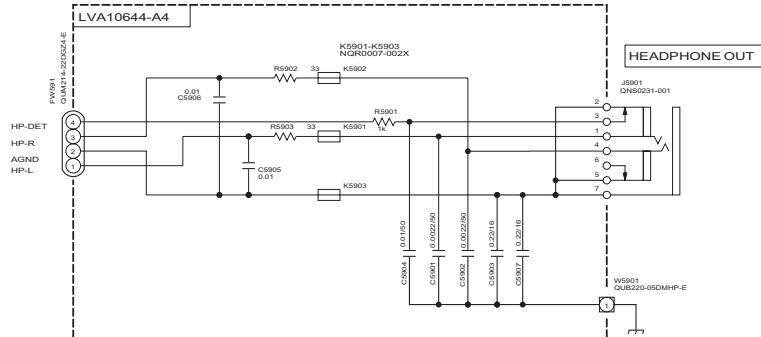
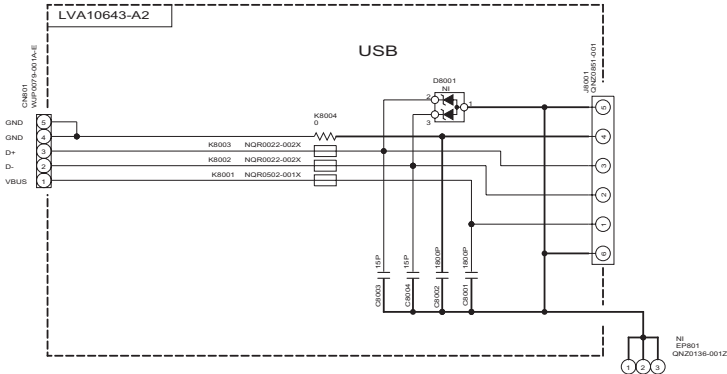
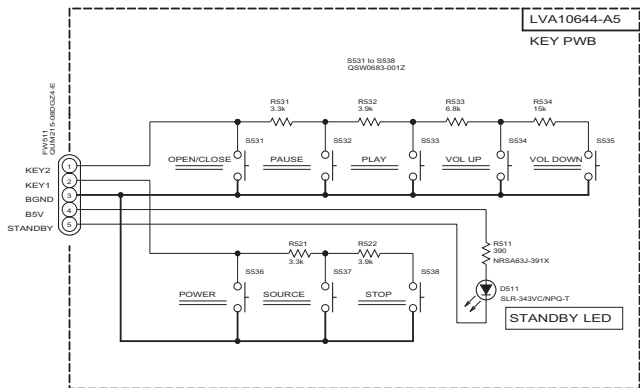
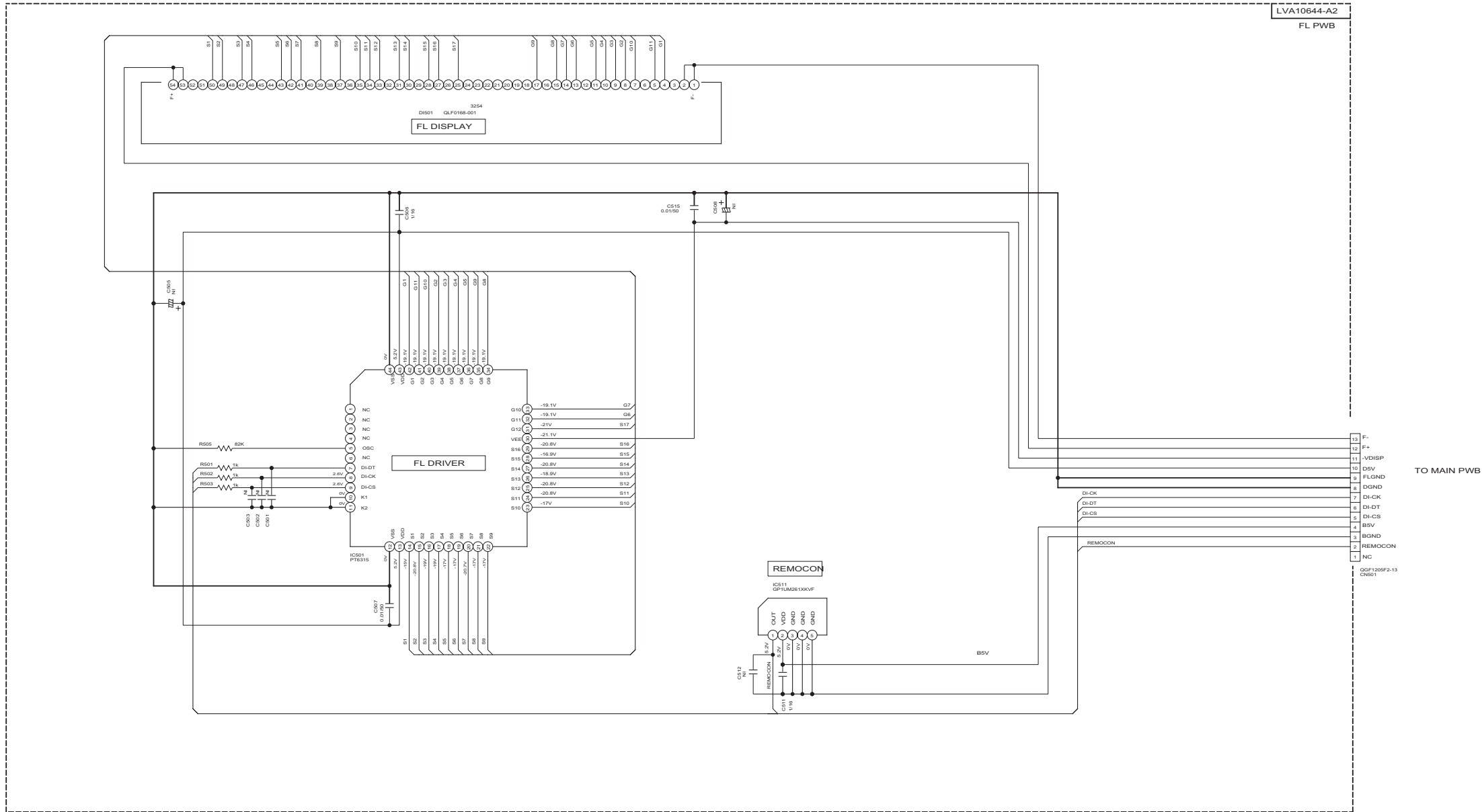
NOTES:

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION POWER-ON. — SOURCE:DVD STOP.
2. UNLESS OTHERWISE SPECIFIED,
ALL RESISTANCE VALUES ARE IN OHMS. 1/16W .
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN F. μ P IS pF.

Video section



■ Front section



NOTES:

1.VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION—POWER.ON. SOURCE.DVD STOP.

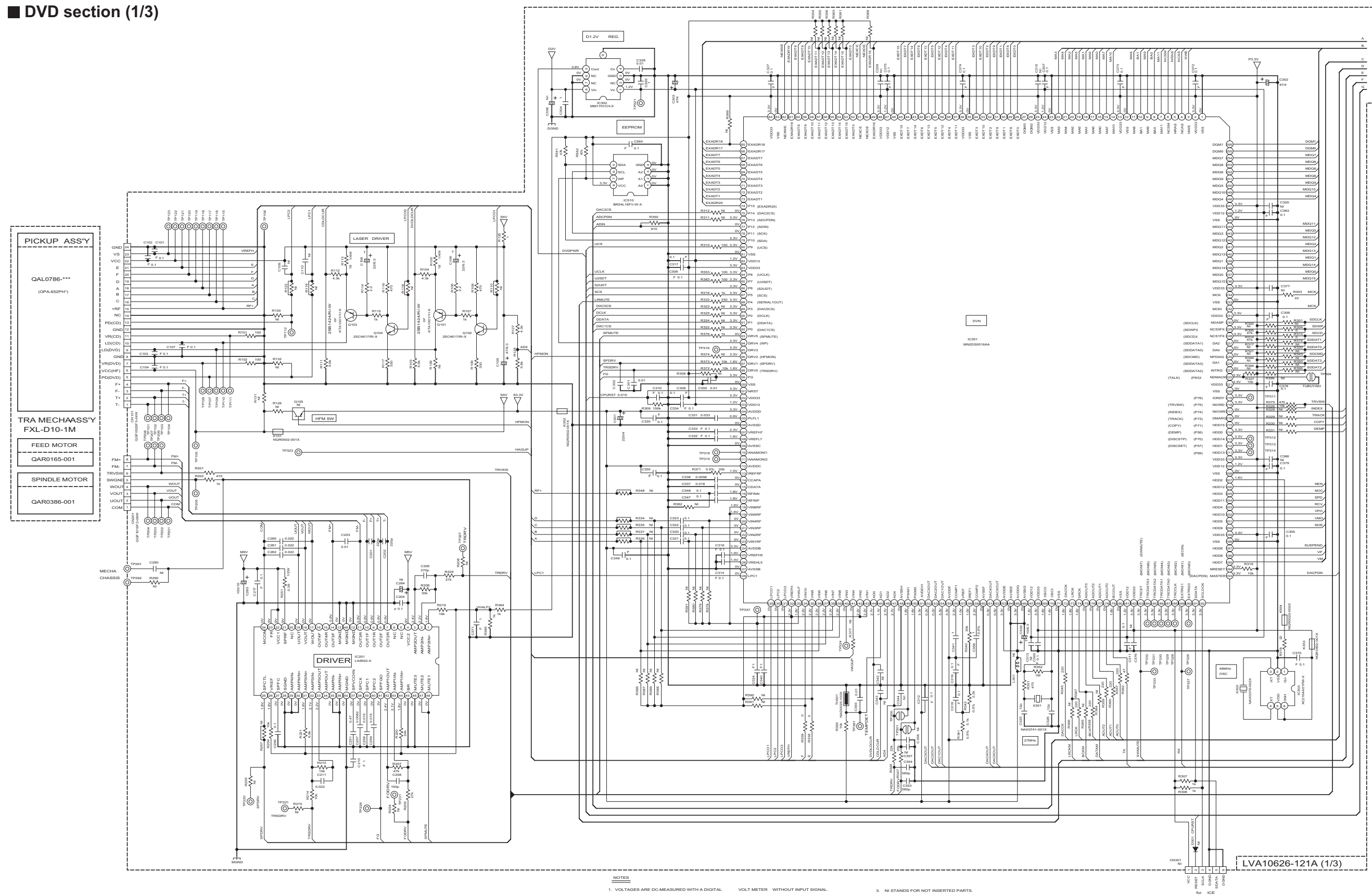
2.UNLESS OTHERWISE SPECIFIED.

ALL RESISTANCE VALUES ARE IN OHMS.

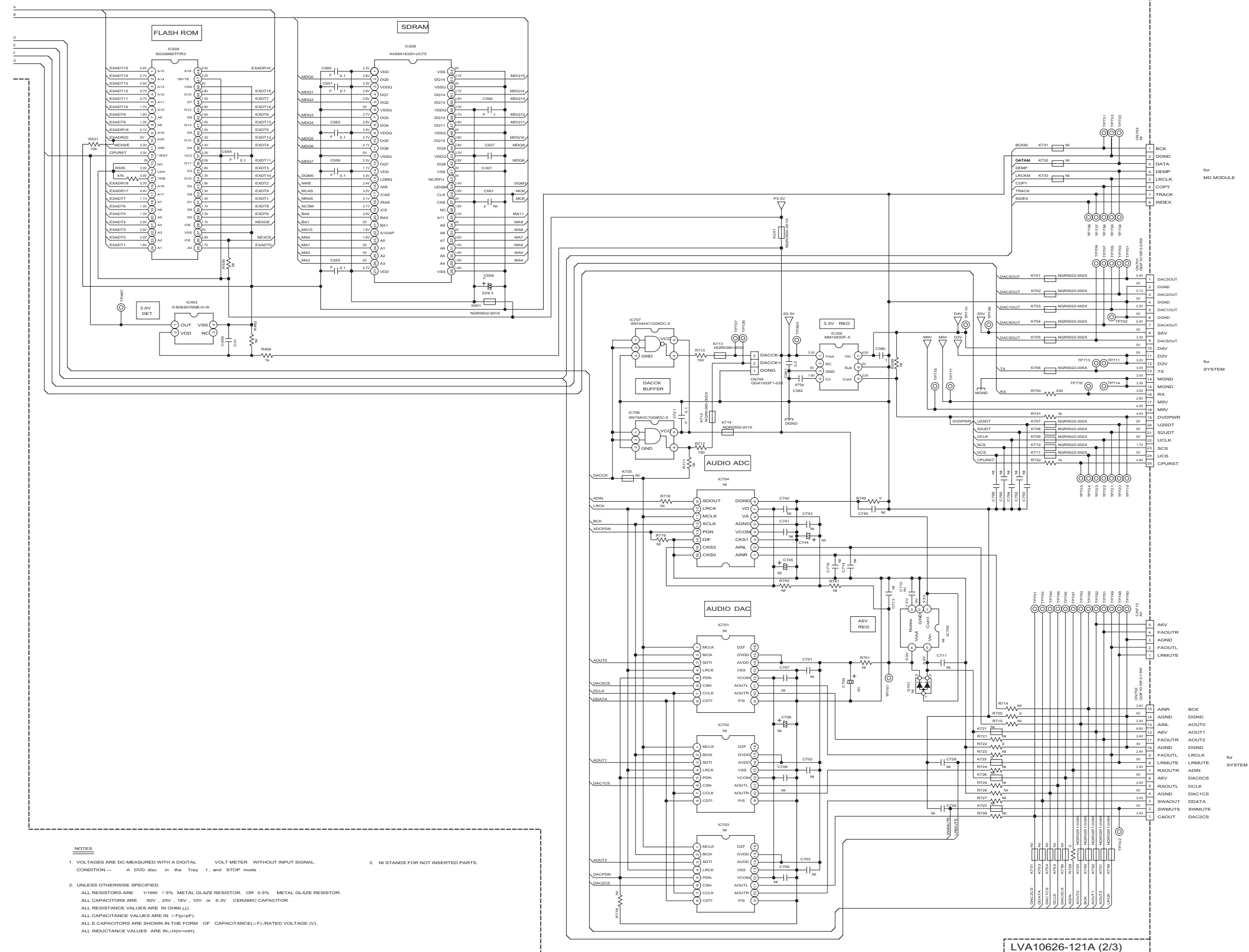
ALL INDUCTANCE VALUES ARE IN H.

ALL CAPACITANCE VALUES ARE IN F. P IS pF.

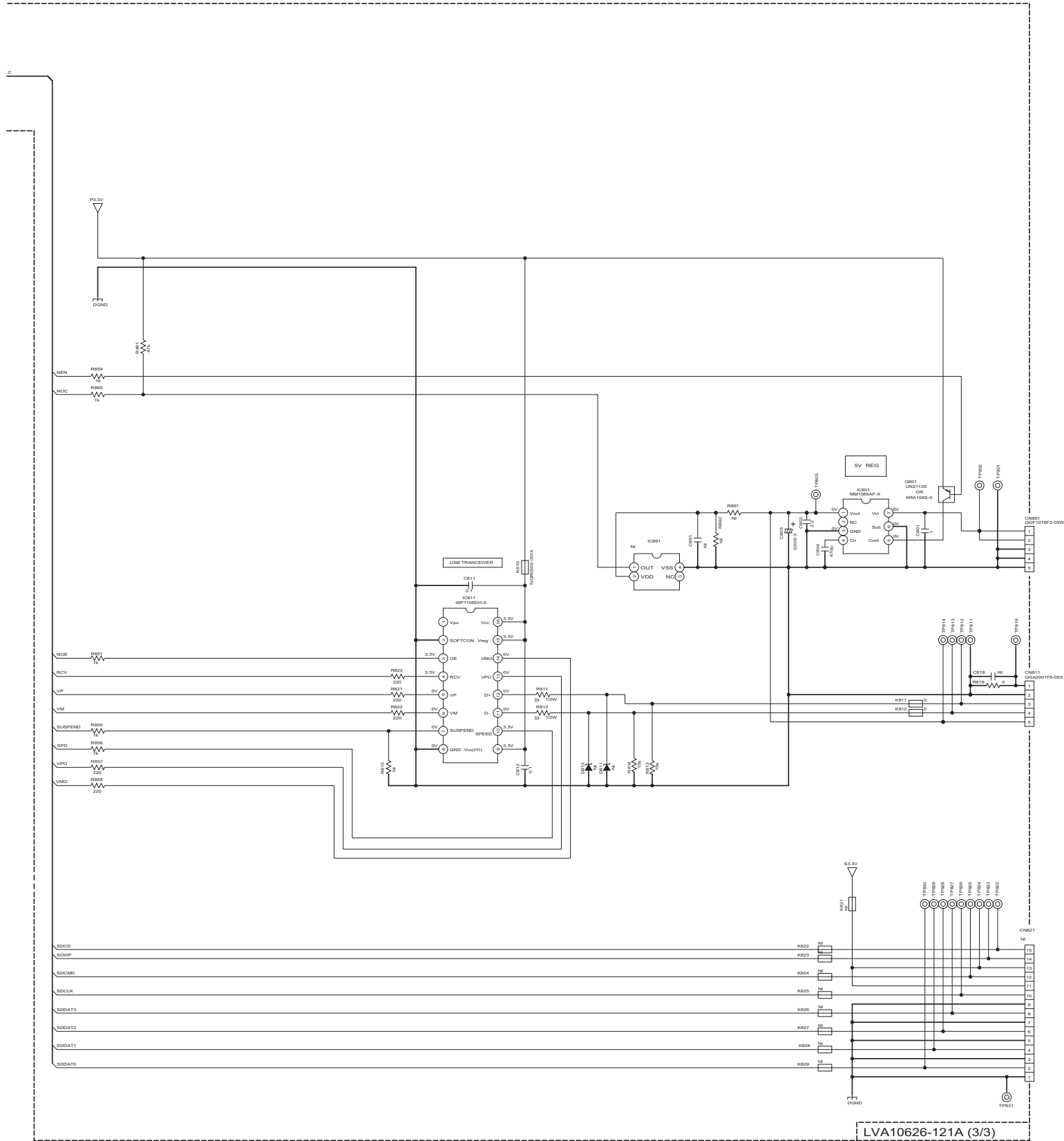
■ DVD section (1/3)



■ DVD section (2/3)

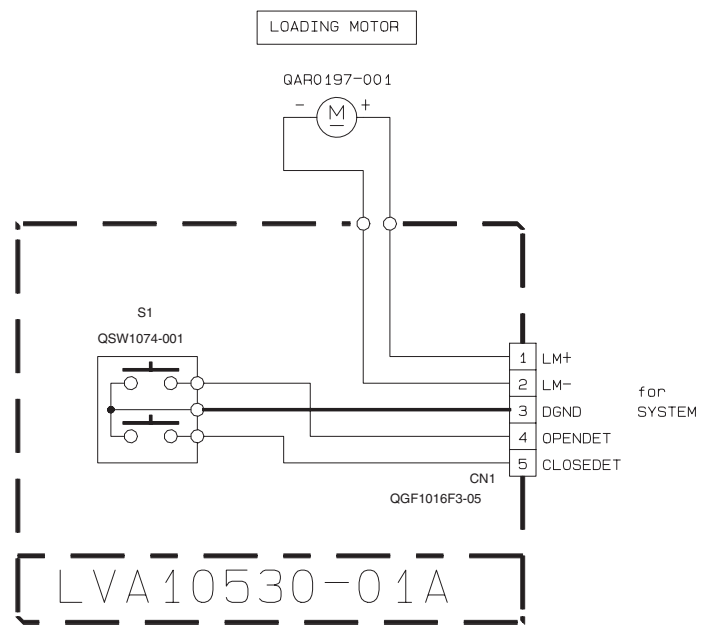


■ DVD section (3/3)



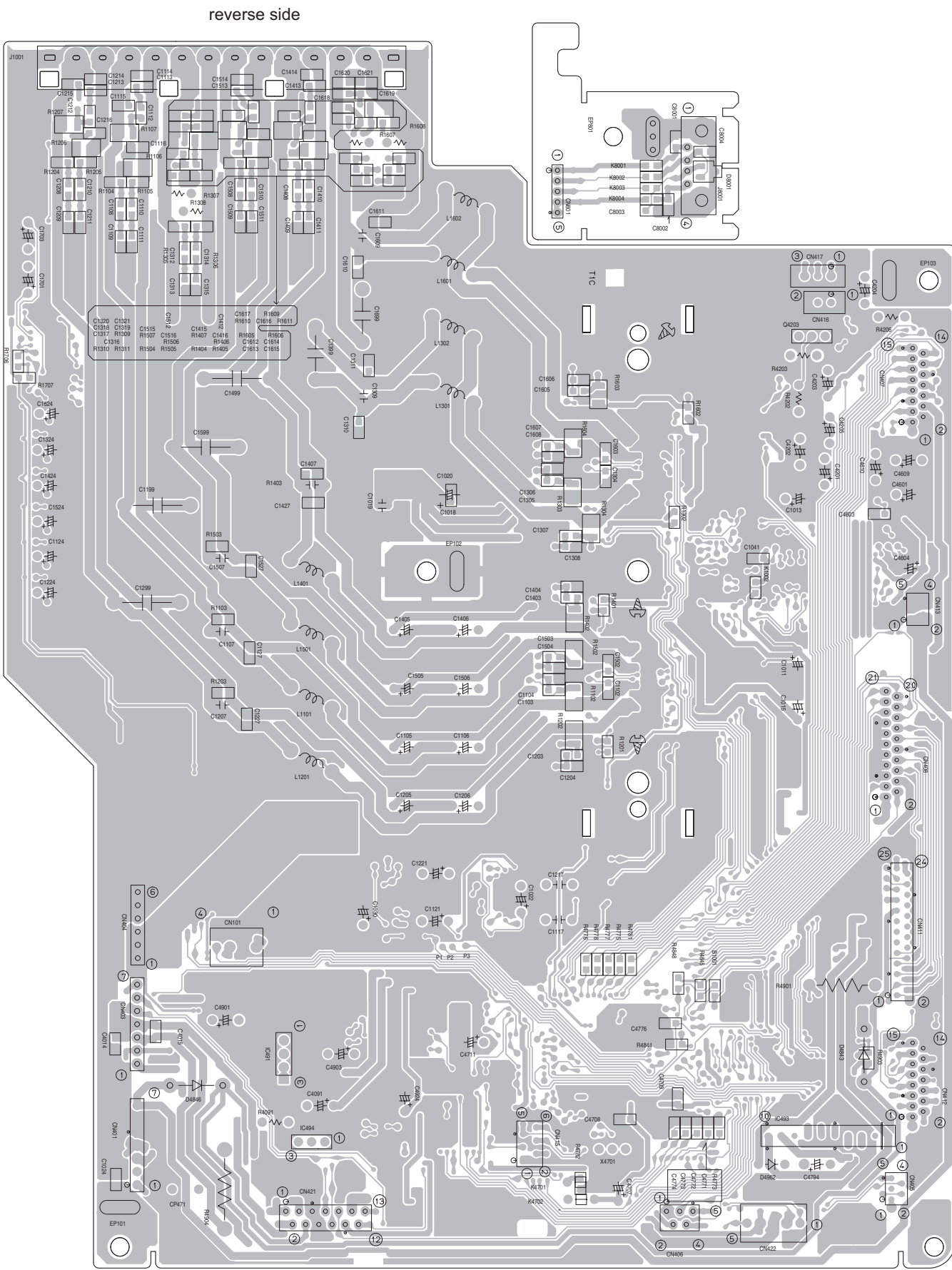
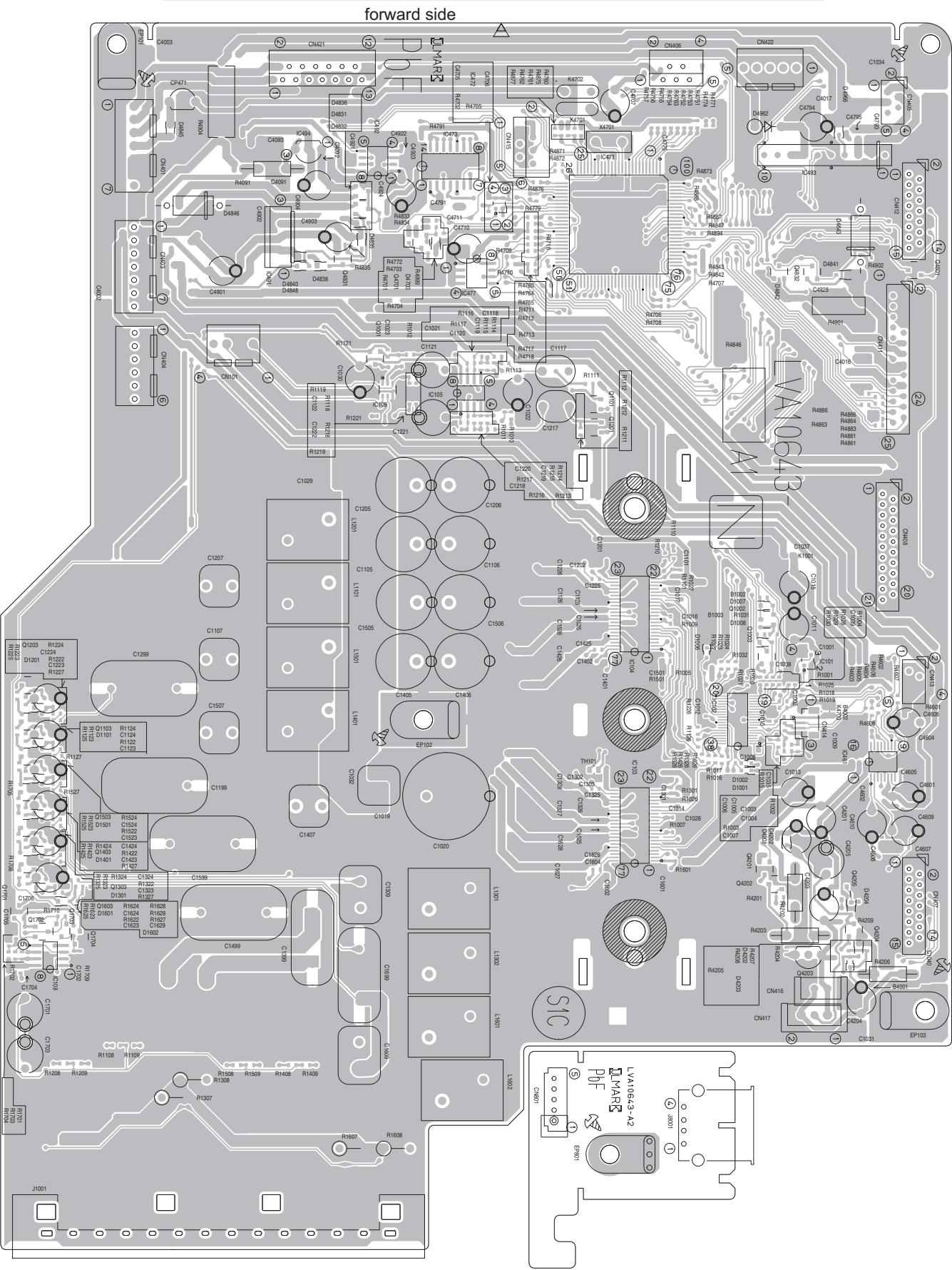
- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION — A DVD disc in the Tray 1, and STOP mode.
 2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR, OR 0.5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE .50V, .25V, .16V, .10V or 6.3V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN pF(pf).
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(//F) / RATED VOLTAGE (V).
ALL INDUCTANCE VALUES ARE IN mH(mH).
 3. NI STANDS FOR NOT INSERTED PARTS.
 4. DIGITAL TRANSISTOR
UN2113-X = 47k

■ Loader section



Printed circuit boards

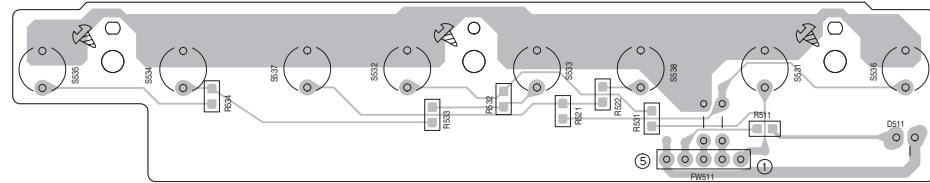
■ Main board Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



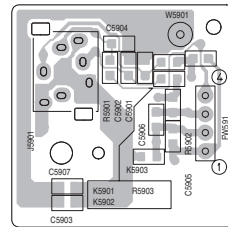
■ **Power supply board** Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

■ **Power supply board** Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

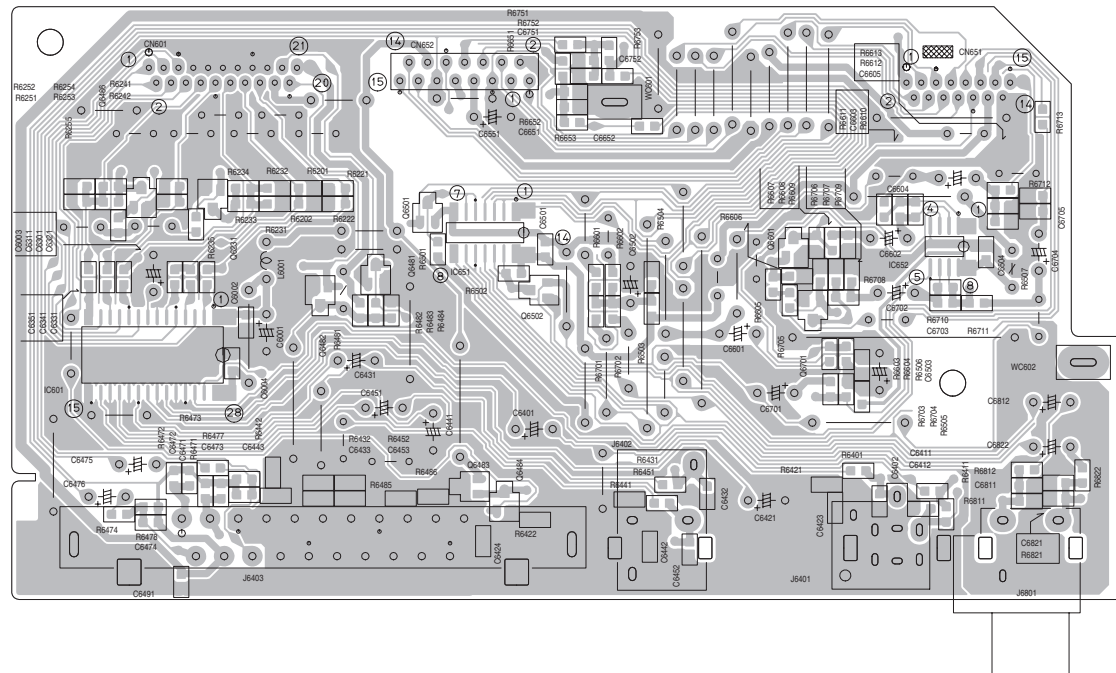
(Key board)



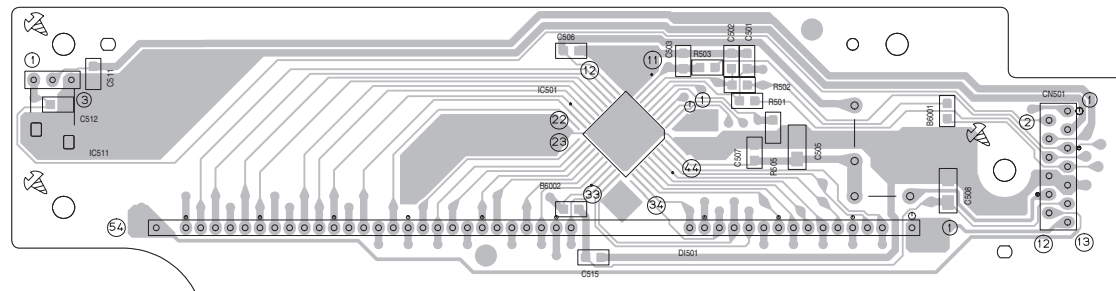
(Headphone board)



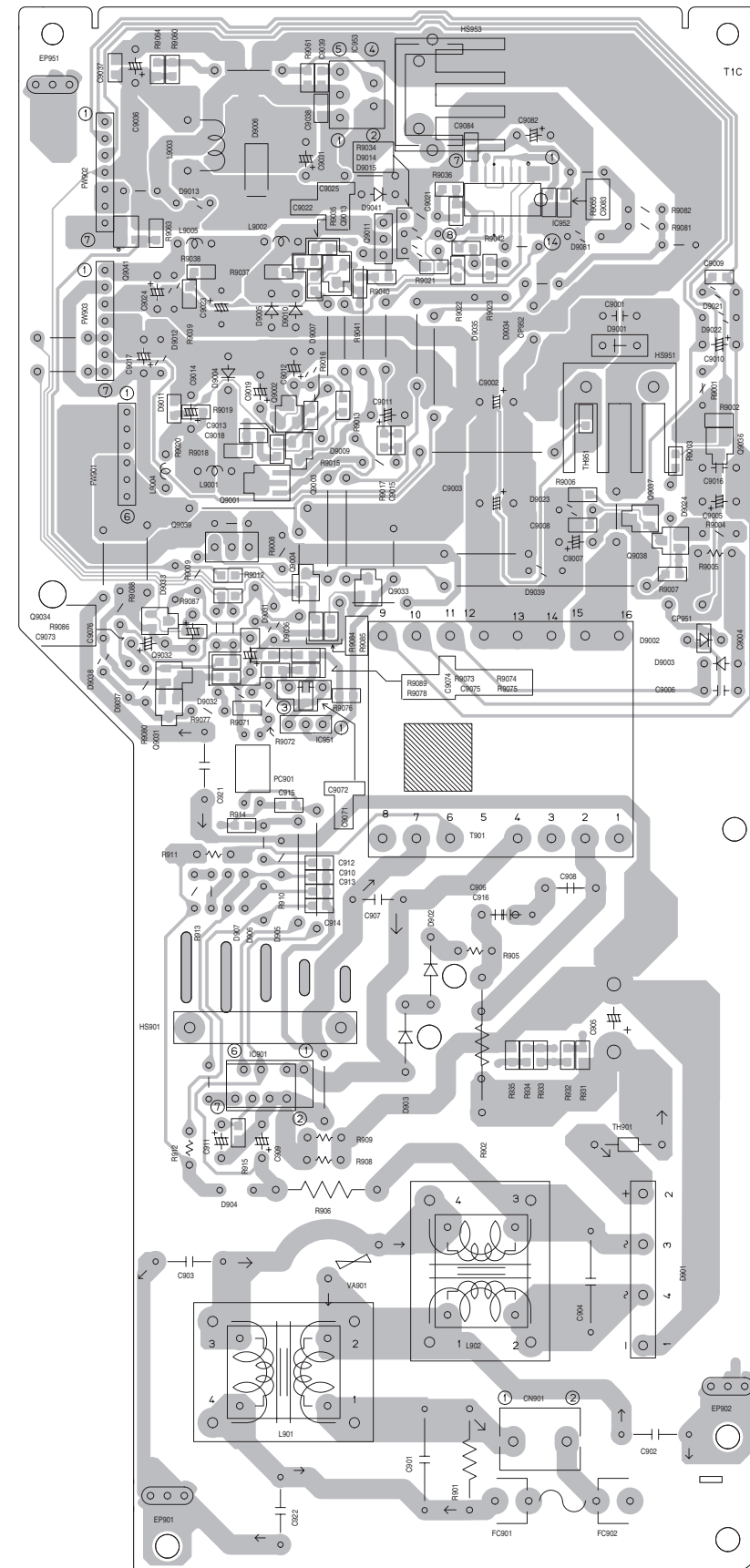
(Video board)



(FL board)



(Power supply board)



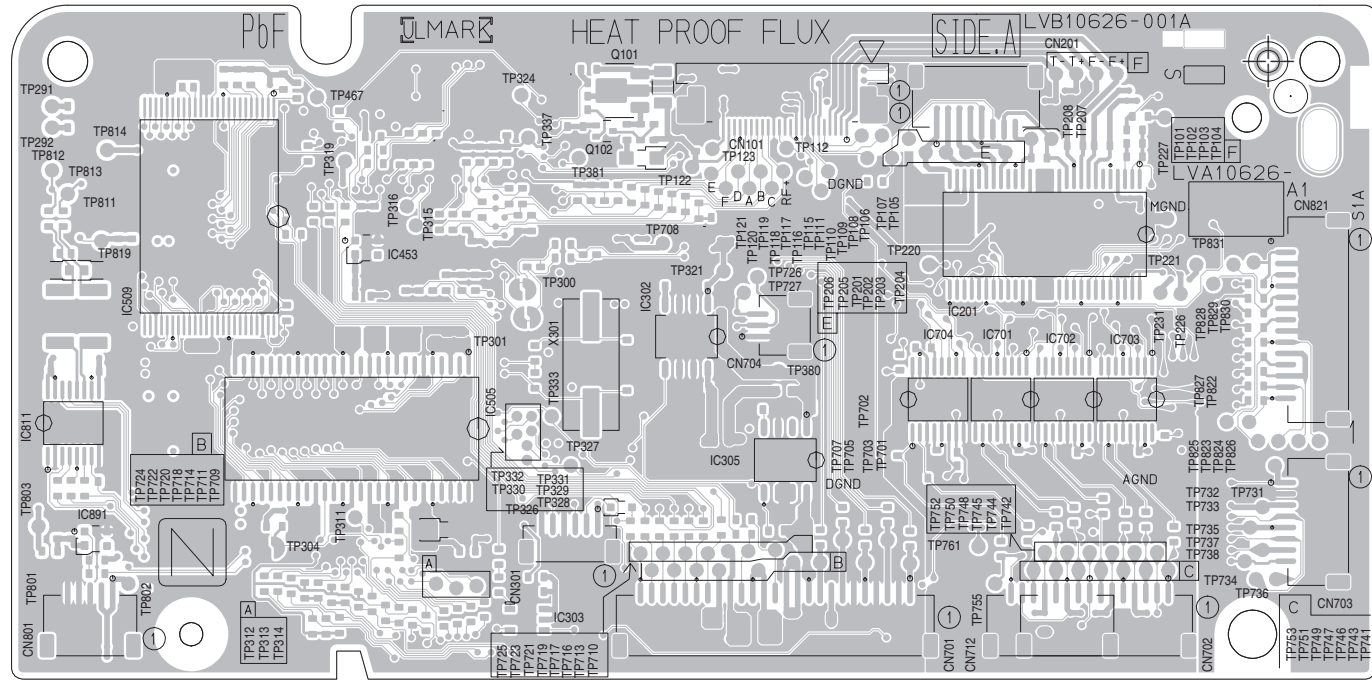
■ DVD board	Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
-------------	--

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

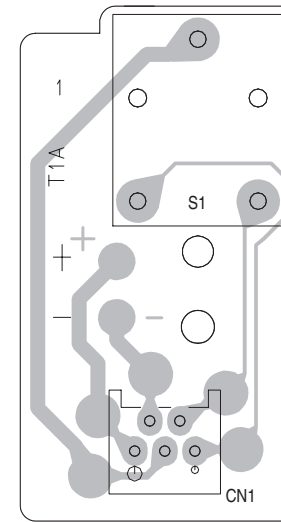
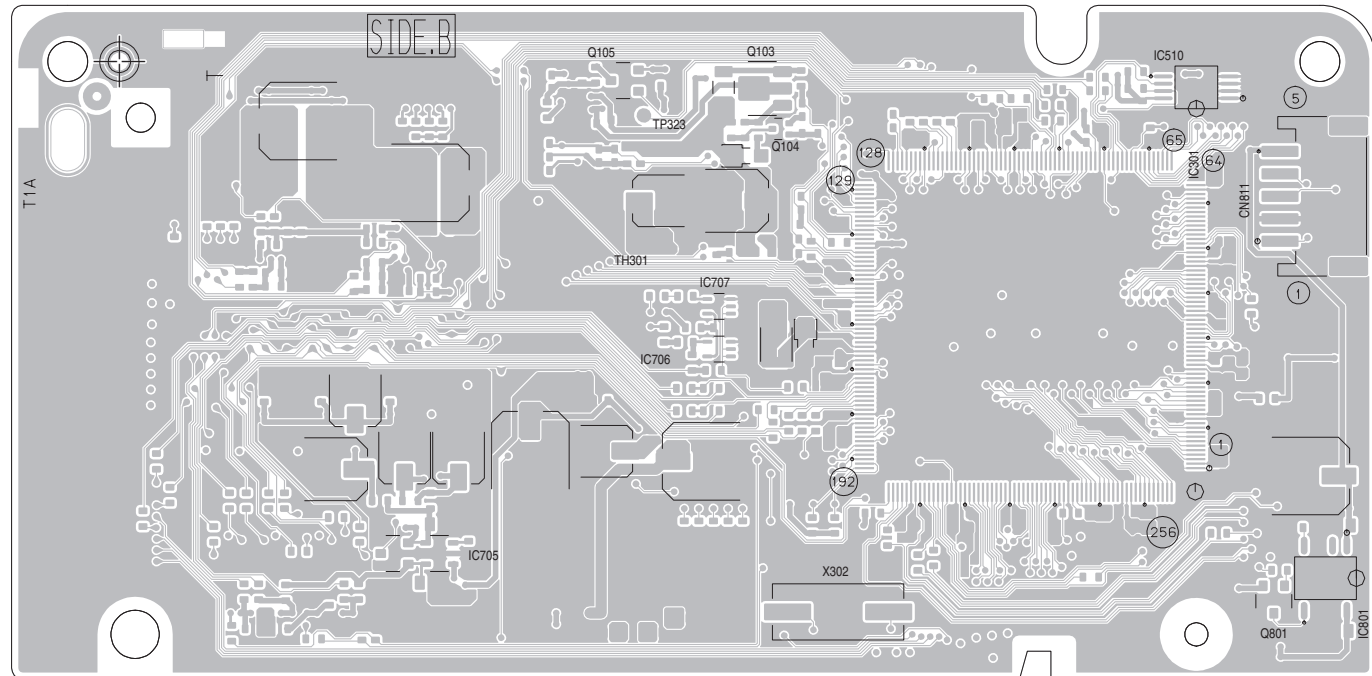
Loader board	Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
---------------------	--

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

forward side



reverse side



< MEMO >



Victor Company of Japan, Limited

Audio/Video Systems Category 10-1, 1chome, Ohwatari-machi, Maebashi-city, 371-8543, Japan

(No.MB541SCH)



Printed in Japan
VPT

PARTS LIST

TH-P3A,TH-P3US,TH-P3UB,TH-P3UW,TH-P3UX
TH-P3UY,TH-P3UJ,TH-P3UG,TH-P3UN

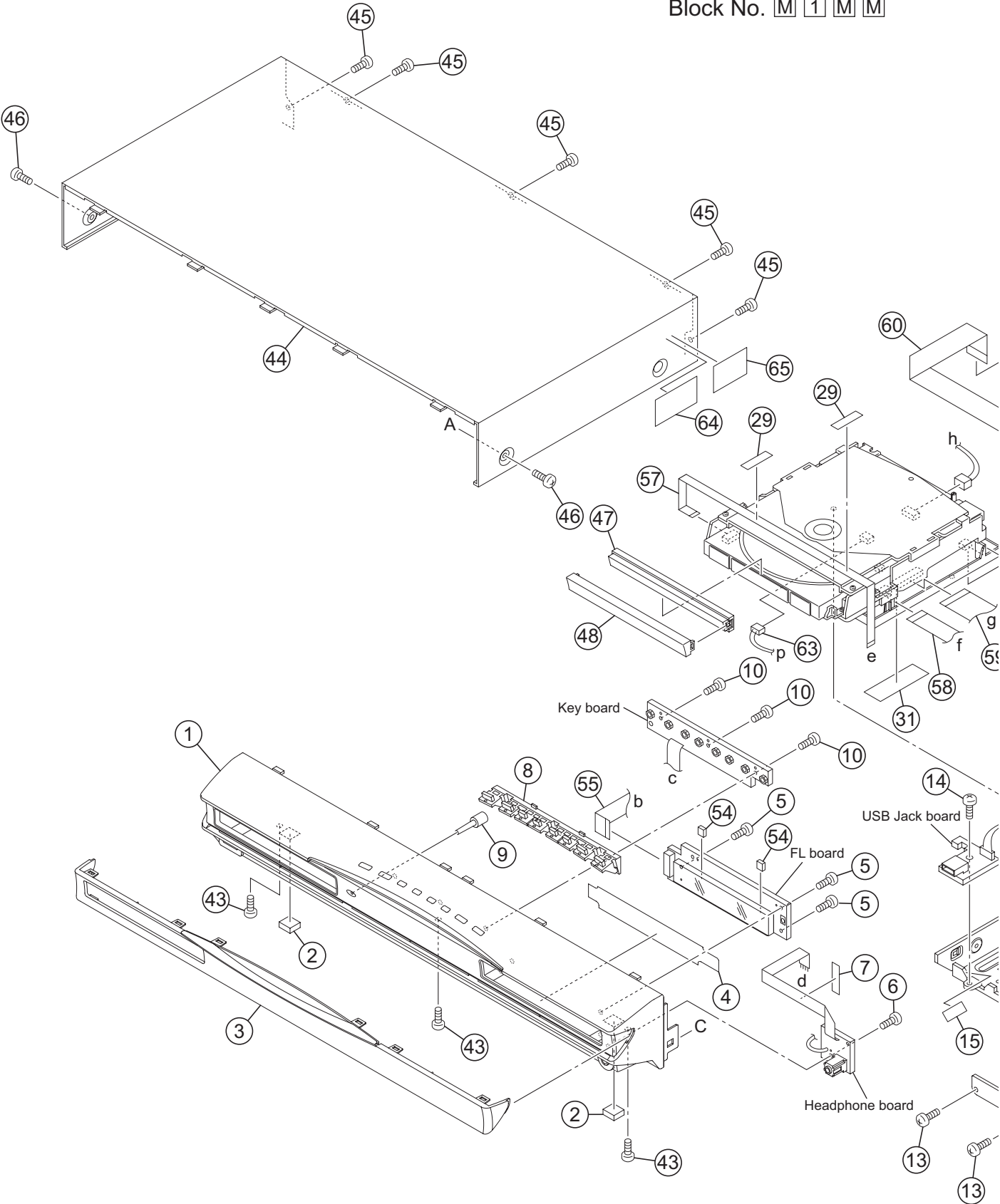
* All printed circuit boards and its assemblies are not available as service parts.

- Contents -

Exploded view of general assembly and parts list (Block No.M1)	3- 2
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Packing materials and accessories parts list (Only TH-P3UJ) (Block No.M4) ----	3-22

Exploded view of general assembly and parts list

Block No. M 1 M M



General Assembly

Block No. [M][1][M][M]

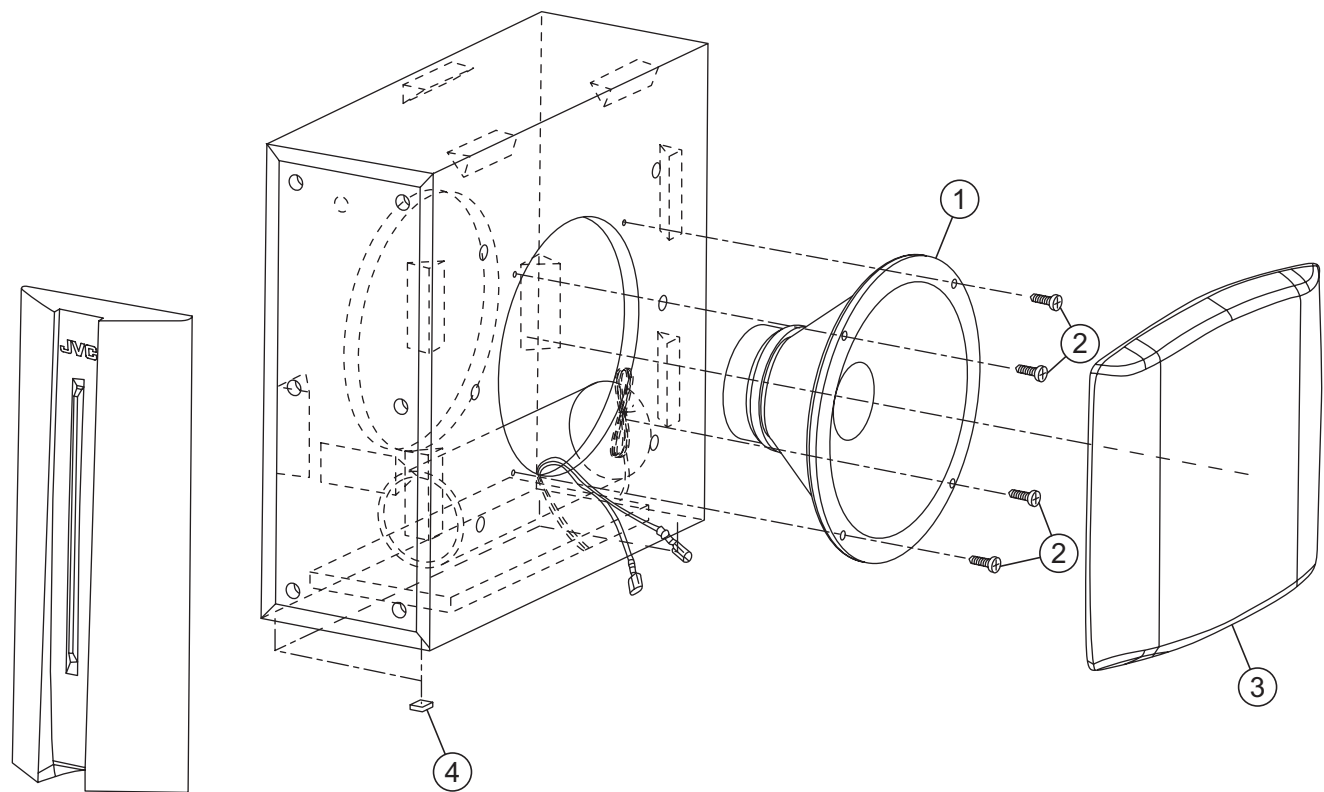
△	Symbol No.	Part No.	Part Name	Description	Local
	1	LV11230-005A	FRONT PANEL		
	2	GV40313-002A	FELT SPACER	(x2)	
	3	LV11231-005A	FRONT LENS		A,US,UB,UW,UX,UY,UG,UN
	3	LV11231-006A	FRONT LENS		UJ
	4	LV44574-001A	FL SCREEN		
	5	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x3)	
	6	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	
	7	LV30225-011A	SPACER		
	8	LV22266-001A	BUTTON		
	9	LV44516-001A	STANDBY LENS		
	10	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x3)	
	11	LV11232-001A	CHASSIS BASE		
	12	GV40313-002A	FELT SPACER	(x2)	
	13	QYSDSG3006ZA	TAP SCREW	M3 x 6mm(x4)	
	14	QYSDSG3006ZA	TAP SCREW	M3 x 6mm	
	15	LV30225-011A	SPACER	(x2)	
	16	LV36990-001A	BARRIER		
	17	QYSDSG3006ZA	TAP SCREW	M3 x 6mm(x5)	
	18	LV44573-001A	FASTENER		
	19	LV30226-048A	SPACER		
	20	LV30226-048A	SPACER	(x2)	
	21	QYSBSG3010ZA	TAP SCREW	M3 x 10mm(x3)	
	22	LV36680-002A	HEAT SINK		
	23	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x4)	
	24	QYSDSG3006ZA	TAP SCREW	M3 x 6mm(x2)	
	25	QAR0390-001	FAN		
	26	LV36681-001A	FAN BRACKET		
	27	QYSBSG3020ZA	TAP SCREW	M3 x 20mm(x2)	
	28	QYSDSG3006ZA	TAP SCREW	M3 x 6mm(x2)	
	29	GV30349-025A	SPACER	(x2)	
	30	GV30349-025A	SPACER		
	31	LV30227-048A	SPACER		
	32	QYSDSF3008ZA	TAP SCREW	M3 x 8mm(x2)	
	33	LV22267-006A	REAR PANEL		
△	34	QZW0033-001	STRAIN RELIEF		
△	35	QMPG080-244-JD	POWER CORD(EU)	2.44m BLACK	A
△	35	QMPK200-200-JD	POWER CORD(EU)	2m BLACK	US,UW,UX,UJ,UG,UN
△	35	QMPN160-200-JD	POWER CORD(EU)	2m BLACK	UB
△	35	QMPR300-200-JC	POWER CORD(EU)	2m BLACK	UY
	36	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	37	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	38	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	39	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	40	QAU0412-001	TUNER		
	41	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	42	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	43	QYSDSG3006ZA	TAP SCREW	M3 x 6mm(x3)	
	44	LV22268-001A/S/	METAL COVER		
	45	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x5)	
	46	E406308-007	SPECIAL SCREW	(x2)	
	47	LV36678-001A	TRAY FITTING		
	48	LV36679-001A	FITTING LENS		
△	49	QMFZ059-2R5-E	FUSE	F901 2.5A	A,UB,UY
△	49	QMFZ059-4R0-E	FUSE	F901 4A	US,UW,UX,UJ,UG,UN
	50	LV36779-008A	RATING LABEL		A
	50	LV36779-004A	RATING LABEL		US,UN
	50	LV36779-006A	RATING LABEL		UB
	50	LV36779-009A	RATING LABEL		UW
	50	LV36779-005A	RATING LABEL		UX,UG
	50	LV36779-007A	RATING LABEL		UY
	50	LV36779-003A	RATING LABEL		UJ
	51	LV36691-002A	HEAT SINK BKT		
	52	QYSBSG3010ZA	TAP SCREW	M3 x 10mm	A,UB,UY
	52	QYSBSG3012ZA	TAP SCREW	M3 x 12mm	US,UW,UX,UJ,UG,UN
	53	QYSDSP3008ZA	SCREW	M3 x 8mm(x2)	
	54	LV30227-027A	SPACER	(x2)	
	55	QUQQ12-1309CJ-E	FFC WIRE	13pin 9cm	
	56	QUQQ12-1110CJ-E	FFC WIRE	11pin 10cm	
	57	QUQV10-0524CJ-E	FFC WIRE	5pin 24cm	
	58	QUQV10-1510CJ-E	FFC WIRE	15pin 10cm	
	59	QUQV10-2510CJ-E	FFC WIRE	25pin 10cm	
	60	QUQV10-2124CJ-E	FFC WIRE	21pin 24cm	
	61	QUQV10-0510CJ-E	FFC WIRE	5pin 10cm	
	62	QUQV10-1509CJ-E	FFC WIRE	15pin 9cm	

△	Symbol No.	Part No.	Part Name	Description	Local
63		QJJ063-031503-E	SIN CR C-C WIRE		
64		GV40642-001A	CAUTION LABEL		UW
65		LV42255-001A	C.LABEL(UY)		UY

Speaker assembly and parts list

(Subwoofer)

Block No. [M][2][M][M]



The parts without symbol number are not service.

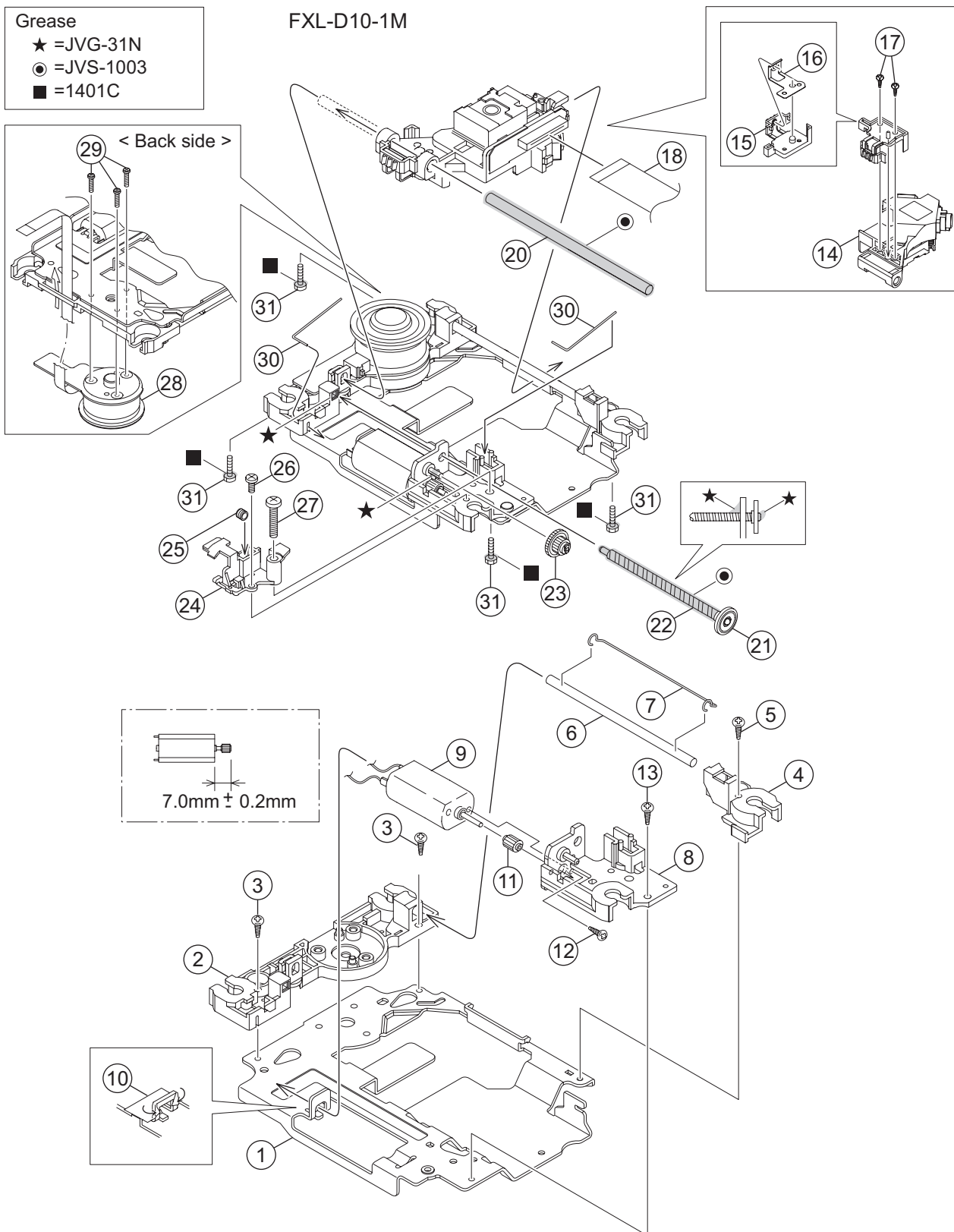
Speaker(Subwoofer)

Block No. [M][2][M][M]

△	Symbol No.	Part No.	Part Name	Description	Local
	1	LE10016-066A	CONE SPK		
	2	7001541605	SCREW	(x4)	
	3	LV11248-001A	SIDE PANEL ASSY		
	4	5600006901	FOOT	(x4)	


DVD mechanism assembly and parts list

Block No. M J M M



DVD mechanism

Block No. [M][J][M][M]

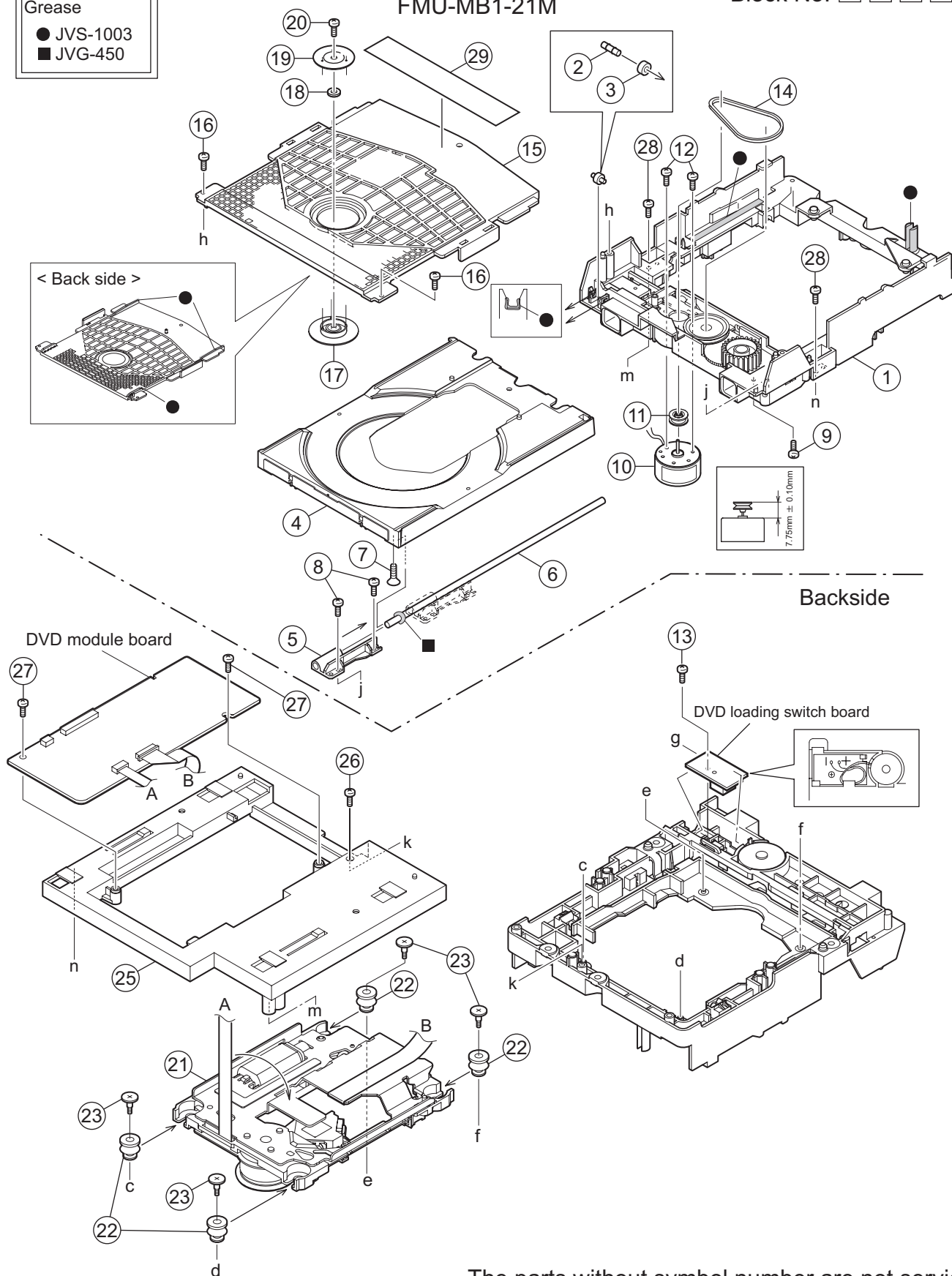
	Symbol No.	Part No.	Part Name	Description	Local
1		LV22234-001A	TM.CHASSIS		
2		LV22235-001A	SPINDLE BASE		
3		QYSDST2005ZA	TAP SCREW	M2 x 5mm(x2)	
4		LV36555-001A	G.S.HOLDER		
5		QYSDST2005ZA	TAP SCREW	M2 x 5mm	
6		LV44041-002A	GUIDE SHAFT		
7		LV44479-001A	BAR SPRING		
8		LV22236-001A	FEED HOLDER		
9		QAR0165-001	FEED MOTOR		
10		LV30225-0X5A	SPACER		
11		LV36557-001A	F.M.GEAR		
12		QYSPSPT2030MA	SCREW	M2 x 3mm	
13		QYSDST2005ZA	TAP SCREW	M2 x 5mm	
14		QAL0786-002	P.UP		
15		LV22237-001A	RACK ARM		
16		LV36560-001A	RACK ARM SPRING		
17		QYSPSFU1740ZA	TAP SCREW	M1.7 x 4mm(x2)	
18		QUQK05-2415AC-E	FFC WIRE	24pin 15cm	
20		LV44041-002A	GUIDE SHAFT		
21		LV36559-001A	L.S.GEAR		
22		LV41517-003A	LEAD SCREW		
23		LV36558-001A	MIDDLE GEAR		
24		LV36556-001A	SPRING HOLDER		
25		LV44623-001A	COMP.SPRING		
26		QYSDST2005ZA	TAP SCREW	M2 x 5mm	
27		QYSDST2616MA	TAP SCREW	M2.6 x 16mm	
28		QAR0386-001	S.MOTOR		
29		QYSPSPU1775ZA	SCREW	M1.7 x 7.5mm(x3)	
30		LV44042-001A	ROD SPRING	(x2)	
31		LV44046-001A	ADJUST SCREW	(x4)	

DVD loading base assembly and parts list

Grease	
●	JVS-1003
■	JVG-450

FMU-MB1-21M

Block No. M N M M



The parts without symbol number are not service.

DVD loading base

Block No. [M][N][M][M]

△	Symbol No.	Part No.	Part Name	Description	Local
1		LV11065-007A	LOADER SUB ASSY		
2		E407140-001SS	C.D ROLLER		
3		E407149-001SS	RUBBER TUBE		
4		LV10979-002A	TRAY		
5		LV35499-001A	SHAFT GUIDE		
6		LV44022-001A	SHAFT		
7		QYSSSF2008ZA	TAP SCREW	M2 x 8mm	
8		QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	
9		LV41741-004A	SPECIAL SCREW		
10		QAR0197-001	MOTOR		
11		LV43844-002A	MOTOR PULLEY		
12		QYSPSPU1730ZA	SCREW	M1.7 x 3mm(x2)	
13		QYSDSF2008ZA	TAP SCREW	M2 x 8mm	
14		LV43974-001A	BELT		
15		LV21852-003A	CLAMPER BASE		
16		QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	
17		LV35056-002A	DVD CLAMPER		
18		LV42930-003A	P.C.MAGNET		
19		LV43848-001A	YOKE		
20		LE40906-002A	SPECIAL SCREW		
21		-----	SINGLE DVD TRAM		
22		LV44043-001A	INSULATOR	(x4)	
23		LV44044-001A	SPECIAL SCREW	(x4)	
25		LV22269-003A	MECHA HOLDER		
26		QYSBSF2608ZA	TAP SCREW	M2.6 x 8mm	
27		LV44209-001A	WASHER SCREW	(x2)	
28		QYSBSF3008ZA	TAP SCREW	M3 x 8mm(x2)	
29		LV44603-001A	LASER CATION		

Electrical parts list

Main board

Block No. [0][1]

△ Symbol No. Part No. Part Name Description Local

IC102	TAS5086DBT-X	IC		
IC103	TAS5142DDV-X	IC		
IC104	TAS5142DDV-X	IC		
IC105	RC4580ID-X	IC		
IC108	RC4558D-X	IC		
IC109	IMX9-W	TRANSISTOR		
IC461	AK5358ET-X	IC		
IC471	MN101C49GPT1	IC MASK		
IC472	S-80840CNNB-G-W	IC		
IC473	SN74AHCT08NS-X	IC		
IC477	BR24L08F-W-X	IC(DIGITAL)		
IC491	KIA7805API	IC		
IC492	MM1593DF-X	IC		
IC493	LB1641	IC		
IC494	KIA78S09P-T	IC		
Q1001	KRA102S-X	DIGI TRANSISTOR		
Q1002	RJK005N03-X	MOS FET		
Q1003	RJK005N03-X	MOS FET		
Q1101	KTA1504/YG/-X	TRANSISTOR		
Q1103	KTC3875/YG/-X	TRANSISTOR		
Q1201	KTA1504/YG/-X	TRANSISTOR		
Q1203	KTC3875/YG/-X	TRANSISTOR		
Q1303	KTC3875/YG/-X	TRANSISTOR		
Q1403	KTC3875/YG/-X	TRANSISTOR		
Q1503	KTC3875/YG/-X	TRANSISTOR		
Q1603	KTC3875/YG/-X	TRANSISTOR		
Q1701	KTC3875/YG/-X	TRANSISTOR		
Q1702	KTC3875/YG/-X	TRANSISTOR		
Q1703	KTA1504/YG/-X	TRANSISTOR		
Q1704	KTC3875/YG/-X	TRANSISTOR		
Q4201	KRC103S-X	DIGITAL TR		
Q4202	KRA102S-X	DIGI TRANSISTOR		
Q4203	KTC3203/OY/-T	TRANSISTOR		
Q4601	KRC110S-X	DIGI TRANSISTOR		
Q4831	KRC102S-X	DIGI TRANSISTOR		
Q4832	KTC3875/YG/-X	TRANSISTOR		
D1001	RB521S-30-X	SB DIODE		
D1002	RB521S-30-X	SB DIODE		
D1101	1SS355W-X	DIODE		
D1201	1SS355W-X	DIODE		
D1301	1SS355W-X	DIODE		
D1401	1SS355W-X	DIODE		
D1501	1SS355W-X	DIODE		
D1601	1SS355W-X	DIODE		
D4201	UDZW10B-X	Z DIODE		
D4831	MA152WA-X	DIODE		
D4832	1SS355W-X	DIODE		
D4835	UDZW6.8B-X	Z DIODE		
D4836	MA152WA-X	DIODE		
D4838	1SS355W-X	DIODE		
D4840	1SS355W-X	DIODE		
D4841	1SS355W-X	DIODE		
D4842	MA152WA-X	DIODE		
D4843	ER204-F33	FR DIODE		
D4845	1SS355W-X	DIODE		
D4846	ER204-F33	FR DIODE		
D4848	1SS355W-X	DIODE		
D4962	1N4003S-T5	SI DIODE		
D4966	UDZW4.7B-X	Z DIODE		
C1002	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C1003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1011	QETN1CM-107Z	E CAPACITOR	100uF 16V M	

△ Symbol No.	Part No.	Part Name	Description	Local
C1012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1013	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C1014	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1015	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C1016	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1017	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1018	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1019	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J	
C1020	QETN1HM-228	E CAPACITOR	2200uF 50V M	
C1021	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1022	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1023	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C1024	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1028	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1029	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1030	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1031	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	
C1034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1035	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C1037	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1041	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1101	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1102	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C1103	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1104	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1105	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C1106	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C1107	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J	
C1108	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1109	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1110	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1111	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1112	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1113	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1114	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1115	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1116	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1117	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C1118	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C1119	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C1120	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C1121	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C1123	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1124	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1125	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1126	NCF21HZ-474X	C CAPACITOR	0.47uF 50V Z	
C1127	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1201	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1202	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C1203	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1204	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1205	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C1206	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C1207	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J	
C1208	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1209	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1210	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1211	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1212	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1213	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1214	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1215	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1216	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1217	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C1218	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C1219	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C1220	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C1221	QETN1CM-227Z	E CAPACITOR	220uF 16V M	
C1223	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1224	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1225	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1226	NCF21HZ-474X	C CAPACITOR	0.47uF 50V Z	
C1227	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1301	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1302	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	

△ Symbol No.	Part No.	Part Name	Description	Local
C1303	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C1304	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C1305	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1306	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1307	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1308	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1309	QFVM2AJ-474Z	MF CAPACITOR	0.47uF 100V J	
C1310	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1311	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1312	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1313	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1314	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1315	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1316	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1317	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1318	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C1319	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C1320	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1321	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1323	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1324	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1325	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1326	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1327	NCF21HZ-474X	C CAPACITOR	0.47uF 50V Z	
C1328	NCF21HZ-474X	C CAPACITOR	0.47uF 50V Z	
C1401	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1402	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C1403	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1404	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1405	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C1406	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C1407	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J	
C1408	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1409	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1410	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1411	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1412	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1413	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1414	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1415	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1416	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1423	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1424	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1425	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1426	NCF21HZ-474X	C CAPACITOR	0.47uF 50V Z	
C1427	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1501	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1502	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C1503	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1504	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1505	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C1506	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C1507	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J	
C1508	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1509	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1510	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1511	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1512	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1513	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1514	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1515	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1516	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C1523	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1524	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1525	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1526	NCF21HZ-474X	C CAPACITOR	0.47uF 50V Z	
C1527	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1601	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1602	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1603	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C1604	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C1605	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1606	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1607	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1608	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C1609	QFVM2AJ-474Z	MF CAPACITOR	0.47uF 100V J	
C1610	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1611	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	

△ Symbol No.	Part No.	Part Name	Description	Local
C1612	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1613	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1614	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1615	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C1616	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1617	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C1618	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C1619	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C1620	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1621	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C1623	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1624	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1625	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1626	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1627	NCF21HZ-474X	C CAPACITOR	0.47uF 50V Z	
C1628	NCF21HZ-474X	C CAPACITOR	0.47uF 50V Z	
C1701	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C1702	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1703	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C1704	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C1705	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C4002	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C4003	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C4014	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4015	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4016	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4017	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C4091	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C4092	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4093	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4201	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4202	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4203	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C4601	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C4602	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4603	NCF21CZ-474X	C CAPACITOR	0.47uF 16V Z	
C4604	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C4605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4607	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C4608	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C4609	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C4610	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C4705	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4706	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4707	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4708	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4710	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4711	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C4771	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4772	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4773	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4774	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4775	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4776	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4791	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4793	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4794	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4795	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4904	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4921	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C4922	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C4923	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C4924	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4925	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8001	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C8002	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C8003	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C8004	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
R1002	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R1003	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R1004	NRSA63F-912X	MG RESISTOR	9.1kΩ 1/16W F	
R1007	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R1009	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R1305	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R1010	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1306	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R1011	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R1307	QRL01DJ-331X	OMF RESISTOR	330Ω 1W J	
R1012	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R1308	QRL01DJ-331X	OMF RESISTOR	330Ω 1W J	
R1015	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R1309	NRS144J-4R7X	MG RESISTOR	4.7Ω 1/4W J	
R1016	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1017	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1311	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1018	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R1322	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1019	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		R1323	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1020	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		R1324	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R1021	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		R1325	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1022	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		R1326	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R1023	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		R1327	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1024	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		R1401	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R1025	NRSA63F-912X	MG RESISTOR	9.1kΩ 1/16W F		R1402	NRS144J-220X	MG RESISTOR	22Ω 1/4W J	
R1026	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J		R1403	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R1027	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J		R1404	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R1028	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		R1405	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R1029	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		R1406	NRS144J-151X	MG RESISTOR	150Ω 1/4W J	
R1030	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		R1407	NRS144J-4R7X	MG RESISTOR	4.7Ω 1/4W J	
R1031	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1408	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1032	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1409	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1101	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J		R1422	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1102	NRS144J-220X	MG RESISTOR	22Ω 1/4W J		R1423	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1103	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J		R1424	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R1104	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J		R1425	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1105	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J		R1426	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R1106	NRS144J-151X	MG RESISTOR	150Ω 1/4W J		R1427	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1107	NRS144J-4R7X	MG RESISTOR	4.7Ω 1/4W J		R1501	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R1108	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R1502	NRS144J-220X	MG RESISTOR	22Ω 1/4W J	
R1109	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R1503	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R1110	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1504	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R1111	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R1505	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R1112	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R1506	NRS144J-151X	MG RESISTOR	150Ω 1/4W J	
R1113	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		R1507	NRS144J-4R7X	MG RESISTOR	4.7Ω 1/4W J	
R1114	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R1508	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1115	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J		R1509	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1116	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1522	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1117	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R1523	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1118	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R1524	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R1119	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J		R1525	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1121	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R1526	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R1122	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R1527	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1123	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R1601	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R1124	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R1602	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R1125	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1603	NRS144J-220X	MG RESISTOR	22Ω 1/4W J	
R1126	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		R1604	NRS144J-220X	MG RESISTOR	22Ω 1/4W J	
R1127	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R1605	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R1201	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J		R1606	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	
R1202	NRS144J-220X	MG RESISTOR	22Ω 1/4W J		R1607	QRL01DJ-331X	OMF RESISTOR	330Ω 1W J	
R1203	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J		R1608	QRL01DJ-331X	OMF RESISTOR	330Ω 1W J	
R1204	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J		R1609	NRS144J-4R7X	MG RESISTOR	4.7Ω 1/4W J	
R1205	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J		R1610	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1206	NRS144J-151X	MG RESISTOR	150Ω 1/4W J		R1611	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R1207	NRS144J-4R7X	MG RESISTOR	4.7Ω 1/4W J		R1622	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1208	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R1623	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1209	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R1624	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R1210	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1625	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1211	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R1626	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R1212	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R1628	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1213	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		R1701	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R1214	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R1702	NRSA63F-333X	MG RESISTOR	33kΩ 1/16W F	
R1215	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J		R1703	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W F	
R1216	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1704	NRSA63F-333X	MG RESISTOR	33kΩ 1/16W F	
R1217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R1705	NRSA63F-333X	MG RESISTOR	33kΩ 1/16W F	
R1218	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R1706	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R1219	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J		R1709	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1221	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R1710	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1222	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R4091	QRZ9005-100X	FUSI RESISTOR	10Ω	
R1223	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R4201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1224	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		R4202	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R1225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R4203	QRJ146J-821X	UNF C RESISTOR	820Ω 1/4W J	
R1226	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		R4204	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1227	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R4601	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J	
R1301	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J		R4602	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1302	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J		R4603	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1303	NRS144J-220X	MG RESISTOR	22Ω 1/4W J		R4604	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1304	NRS144J-220X	MG RESISTOR	22Ω 1/4W J		R4605	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R4606	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4607	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4608	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4705	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4706	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4708	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4709	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4710	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R4711	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4712	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4713	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4716	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4717	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4718	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4751	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	A,US,UB,UX, UY,UG,UN
R4752	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	A,US,UB,UJ, UG,UN
R4752	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	UX
R4752	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	UX
R4753	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4754	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4755	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4756	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R4757	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R4760	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4761	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4762	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4764	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4765	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4771	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4772	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4773	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4774	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	UW,UJ
R4775	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4776	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4778	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4779	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4780	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4781	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4782	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4791	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
R4833	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4834	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4835	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4842	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4843	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4844	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4845	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4846	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4847	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4848	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4861	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4863	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4864	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4866	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R4871	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4872	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4873	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4875	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4876	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4877	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R4881	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4883	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4886	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4887	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4894	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4901	QRT017J-2R2	MF RESISTOR	2.2Ω 1W J	
R4902	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R4903	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4904	QRL027J-101	OMF RESISTOR	100Ω 2W J	
L1101	QQR1699-001	CHOKE COIL		
L1201	QQR1699-001	CHOKE COIL		

△ Symbol No.	Part No.	Part Name	Description	Local
L1301	QQR1699-001	CHOKE COIL		
L1302	QQR1699-001	CHOKE COIL		
L1401	QQR1699-001	CHOKE COIL		
L1501	QQR1699-001	CHOKE COIL		
L1601	QQR1699-001	CHOKE COIL		
L1602	QQR1699-001	CHOKE COIL		
CN101	QGD2501C1-04Z	CONNECTOR	(1-4)	
CN401	QGD2501C1-07Z	CONNECTOR	(1-7)	
CN403	QGD2501C1-07Z	CONNECTOR	(1-7)	
CN404	QGD2501C1-06Z	CONNECTOR	(1-6)	
CN405	QGF1036C2-05	CONNECTOR	FFC/FPC (1-5)	
CN406	QGF1205C2-05	CONNECTOR	FFC/FPC (1-5)	
CN407	QGF1036C2-15	CONNECTOR	FFC/FPC (1-15)	
CN408	QGF1036C2-21	CONNECTOR	FFC/FPC (1-21)	
CN411	QGF1036C2-25	CONNECTOR	FFC/FPC (1-25)	
CN412	QGF1036C2-15	CONNECTOR	FFC/FPC (1-15)	
CN413	QGF1036C2-05	CONNECTOR	FFC/FPC (1-5)	
CN414	QGA1002C1-03X	CONNECTOR	W-B (1-3)	
CN417	QGA2501C1-03	CONNECTOR	W-B (1-3)	
CN421	QGF1205C2-13	CONNECTOR	FFC/FPC (1-13)	
CN422	QGD2501C1-05Z	CONNECTOR	(1-5)	
CN801	WJP0079-001A-E	E-SH C WIRE C-B		
△ CP471	ICP-N5-T	IC PROTECTOR	250mA	
J1001	QNB0189-001	SPEAKER TERMINA		
J8001	QNZ0851-001	USB CONNECTOR		
K1001	NQR0502-001X	FERRITE BEADS		
K1002	NQR0502-001X	FERRITE BEADS		
K4702	QQR0621-001Z	COIL		
K8001	NQR0502-001X	FERRITE BEADS		
K8002	NQR0022-002X	FERRITE BEADS		
K8003	NQR0022-002X	FERRITE BEADS		
K8004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
TH101	NAD0006-103X	THERMISTOR	10kΩ	
X4701	QAX0246-001Z	C RESONATOR	8.00MHz	

Power board

Block No. [0][2]

△ Symbol No.	Part No.	Part Name	Description	Local
IC501	PT6315	IC		
IC511	GP1UM261XKVF	IR DETECT UNIT		
IC601	MM1623XF-X	IC		
IC651	KDC4066BM-X	IC		
IC652	RC4558D-X	IC		
△ IC901	STR-W6765N	IC		A,UB,UY, US,UW,UX, UJ,UG,UN
△ IC901	STR-X6768N	IC		
IC951	KIA431A-T	IC		
IC952	SN74LV04ANS-X	IC		
IC953	PQ1CG2032FZ	IC		
Q6501	KRC104S-X	TRANSISTOR		
Q6502	KRC104S-X	TRANSISTOR		
Q6601	KTC3875/YG/-X	TRANSISTOR		
Q6701	KTC3875/YG/-X	TRANSISTOR		
Q9001	2SJ632-X	POWER MOS FET		
Q9002	KTA1504/YG/-X	TRANSISTOR		
Q9003	KTC3875/YG/-X	TRANSISTOR		
Q9004	KRA102S-X	DIGI TRANSISTOR		
Q9011	2SJ609	POWER MOS FET		
Q9013	KTC3875/YG/-X	TRANSISTOR		
Q9031	KRC102S-X	DIGI TRANSISTOR		
Q9032	KRC102S-X	DIGI TRANSISTOR		
Q9034	KRC102S-X	DIGI TRANSISTOR		
Q9036	KTC3265/Y/-X	TRANSISTOR		
Q9037	KTA1504/YG/-X	TRANSISTOR		
Q9038	KRC104S-X	TRANSISTOR		
Q9039	2SJ651	POWER MOS FET		
Q9041	RTQ035P02-W	MOS FET		
D511	SLR-343VC/NPQ-T	LED		
△ D901	D3SBA60	BRIDGE DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
D902	SARS01-T2	FR DIODE		US,UW,UX, UJ,UG,UN	C6412	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
D903	SARS01-T2	FR DIODE			C6421	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
D904	1SS244-T2	SI DIODE IM			C6423	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
D905	1SS133-T2	SI DIODE			C6431	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
D906	1SS133-T2	SI DIODE			C6432	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
D907	1SS133-T2	SI DIODE			C6441	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
D9001	FMN-G12S	SI DIODE			C6442	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
D9002	FR104S-T5	FR DIODE			C6451	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
D9003	FR104S-T5	FR DIODE			C6452	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
D9004	FR104S-T5	FR DIODE			C6501	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D9005	FR104S-T5	FR DIODE			C6502	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
D9006	EC30HA04-X	SB DIODE			C6503	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
D9007	MTZJ2.7A-T2	Z DIODE			C6504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D9009	1SS133-T2	SI DIODE			C6551	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D9010	FR104S-T5	FR DIODE			C6601	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D9011	MTZJ16C-T2	Z DIODE			C6602	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
D9012	MTZJ15C-T2	Z DIODE			C6603	NDC31HK-101X	C CAPACITOR	100pF 50V K	
D9013	MTZJ10C-T2	Z DIODE			C6604	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D9014	MTZJ5.1C-T2	Z DIODE			C6605	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
D9015	MTZJ5.1C-T2	Z DIODE			C6651	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
D9021	MTZJ5.1C-T2	Z DIODE			C6652	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
D9022	MTZJ2.2A-T2	S.B.DIODE			C6701	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D9023	MTZJ22C-T2	Z DIODE			C6702	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
D9024	1SS133-T2	SI DIODE			C6703	NDC31HK-101X	C CAPACITOR	100pF 50V K	
D9032	MTZJ10C-T2	Z DIODE			C6704	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D9033	1SS133-T2	SI DIODE			C6705	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
D9036	MTZJ20C-T2	Z DIODE			C6751	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
D9038	MTZJ20C-T2	Z DIODE			C6752	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
D9039	MTZJ39D-T2	Z.DIODE I.M			C6811	NCB31HK-331X	C CAPACITOR	330pF 50V K	
D9041	1N4003S-T5	SI DIODE			C6812	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D9081	MTZJ5.6A-T2	Z DIODE			C6821	NCB31HK-331X	C CAPACITOR	330pF 50V K	
△ PC901	PC123Y22FZ	PHOTO COUPLER			C6822	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C506	NCB31CK-105X	C CAPACITOR	1uF 16V K		C9001	QCZ0136-332Z	C CAPACITOR	3300pF 1kV K	
C507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C9002	QEZ0779-827	E CAPACITOR	820uF	
C511	NCB31CK-105X	C CAPACITOR	1uF 16V K		C9003	QEZ0779-827	E CAPACITOR	820uF	
C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C9004	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
△ C901	QFZ9073-154	MM CAPACITOR	0.15uF AC250V M	A,UB,UY US,UW,UX, UJ,UG,UN	C9005	QEZ0655-826Z	E CAPACITOR	82uF	
△ C901	QFZ9073-334	MM CAPACITOR	0.33uF AC250V M		C9006	QCZ0136-101Z	C CAPACITOR	100pF 1kV K	
△ C902	QCZ9079-102	C CAPACITOR	1000pF AC250V M		C9007	QEZ0657-396Z	E CAPACITOR	39uF	
△ C903	QCZ9079-102	C CAPACITOR	1000pF AC250V M		C9008	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
△ C904	QFZ9073-154	MM CAPACITOR	0.15uF AC250V M	A,UB,UY US,UW,UX, UJ,UG,UN	C9009	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
△ C904	QFZ9073-334	MM CAPACITOR	0.33uF AC250V M		C9010	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
△ C905	QEZ0792-227	E CAPACITOR	220uF	A,UB,UY US,UW,UX, UJ,UG,UN	C9012	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
△ C905	QEZ0791-477	E CAPACITOR	470uF		C9013	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C906	QCZ0136-332Z	C CAPACITOR	3300pF 1kV K		C9014	QEZ0655-107Z	E CAPACITOR	100uF	
C907	QCZ0340-102	C CAPACITOR	1000pF 2kV K		C9015	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C909	QEZ0657-226Z	E CAPACITOR	22uF		C9017	QEZ0655-337Z	E CAPACITOR	330uF	
C910	NCB31HK-471X	C CAPACITOR	470pF 50V K		C9018	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C911	QETN1HM-105Z	E CAPACITOR	1uF 50V M		C9019	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C912	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C9021	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C913	NCB31HK-332X	C CAPACITOR	3300pF 50V K		C9022	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C914	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C9023	QEZ0701-827	E CAPACITOR	820uF 16V M	
△ C921	QCZ9079-102	C CAPACITOR	1000pF AC250V M		C9024	QEZ0655-107Z	E CAPACITOR	100uF	
C5901	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C9025	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C5902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C9031	QETN1HM-107Z	E CAPACITOR	100uF 50V M	A,UB,UY US,UW,UX, UJ,UG,UN
C5903	NCB31CK-224X	C CAPACITOR	0.22uF 16V K		C9031	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	
C5904	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C9036	QEZ0654-108Z	E CAPACITOR	1000uF	
C5905	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C9037	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C9038	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5907	NCB31CK-224X	C CAPACITOR	0.22uF 16V K		C9039	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6001	QETN1AM-477Z	E CAPACITOR	470uF 10V M		C9071	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C6002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C9072	QFVF1HJ-154Z	MF CAPACITOR	0.15uF 50V J	
C6003	QETN1HM-226Z	E CAPACITOR	22uF 50V M		C9073	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C6004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C9076	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C6301	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C9082	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C6311	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C9084	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6321	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C6331	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C6341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C6351	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R505	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
C6401	QETN1AM-477Z	E CAPACITOR	470uF 10V M		R511	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
C6402	NDC31HJ-470X	C CAPACITOR	47pF 50V J		R521	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C6411	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R522	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
					R531	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
					R532	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
					R533	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R534	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R6751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
△ R901	QRZ9037-335	COMP RESISTOR	3.3MΩ 1/2W K		R6752	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R902	QRZ0255-224	UNF C RESISTOR	220kΩ		R6753	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
△ R905	QRL02DJ-220X	OMF RESISTOR	22Ω 2W J		R6811	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R906	QRZ0254-154	UNF C RESISTOR	150kΩ	A,UB,UY	R6812	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R906	QRL027J-823	OMF RESISTOR	82kΩ 2W J	US,UW,UX, UJ,UG,UN	R6821	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R908	QRT01DJ-R39X	MF RESISTOR	0.39Ω 1W J	A,UB,UY	R6822	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R908	QRT01DJ-R27X	MF RESISTOR	0.27Ω 1W J	US,UW,UX, UJ,UG,UN	R9002	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R909	QRT01DJ-R47X	MF RESISTOR	0.47Ω 1W J	A,UB,UY	R9003	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R909	QRT01DJ-R22X	MF RESISTOR	0.22Ω 1W J	US,UW,UX, UJ,UG,UN	R9004	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R910	QRE141J-121Y	C RESISTOR	120Ω 1/4W J		△ R9005	QRZ9005-100X	FUSI RESISTOR	10Ω	
△ R911	QRZ9005-680X	FUSI RESISTOR	68Ω		R9006	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R912	QRK126J-122X	UNF C RESISTOR	1.2kΩ 1/2W J		R9007	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R913	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	US,UW,UX, UJ,UG,UN	R9008	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R914	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R9009	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R915	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R9012	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R931	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J		R9013	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R932	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J		R9015	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R933	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J		R9016	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R934	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J		R9017	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R935	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J		R9018	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R5901	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R9019	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R5902	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J		R9020	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5903	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J		R9021	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6201	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		R9022	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6202	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R9034	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R6221	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J		R9035	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R6222	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R9036	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R6231	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J		R9037	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6232	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R9038	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6241	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J		R9039	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6242	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R9040	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6251	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J		R9041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6252	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R9055	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6401	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		R9060	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6411	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		R9061	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R6421	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		R9063	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6431	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		R9071	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6441	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		R9072	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R6451	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		R9073	NRSA63F-622X	MG RESISTOR	6.2kΩ 1/16W F	
R6501	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R9074	NRSA63F-622X	MG RESISTOR	6.2kΩ 1/16W F	
R6502	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R9075	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R6503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R9076	NRSA63F-102X	MG RESISTOR	1kΩ 1/16W F	
R6504	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R9077	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R6505	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R9078	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R6506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R9080	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R6601	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R9081	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R6602	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		R9082	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R6603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R9086	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6604	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R9087	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6605	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R9089	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6606	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		△ L901	QQR1723-001	LINE FILTER		A,UB,UY
R6607	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J		△ L901	QQR1710-002	LINE FILTER		US,UW,UX, UJ,UG,UN
R6608	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		△ L902	QQR1723-001	LINE FILTER		A,UB,UY
R6609	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		△ L902	QQR1710-002	LINE FILTER		US,UW,UX, UJ,UG,UN
R6610	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		L6001	QQL25CK-221Z	COIL	220uH K	
R6611	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L9001	QQL81AK-331Z	COIL	330uH K	
R6612	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		L9002	QQL83AK-101Z	COIL	100uH K	
R6613	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		L9003	QQL82AK-101	COIL	100uH K	
R6651	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L9004	QQL244K-100Z	COIL	10uH K	
R6652	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		L9005	QQL26AK-100Z	COIL	10uH K	
R6653	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		△ T901	QQS0374-001	SW TRANSF		
R6701	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		CN501	QGF1205F2-13	CONNECTOR	FFC/FPC (1-13)	
R6702	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		CN601	QGF1036C2-21	CONNECTOR	FFC/FPC (1-21)	
R6703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN651	QGF1036C2-15	CONNECTOR	FFC/FPC (1-15)	
R6704	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		CN652	QGF1205C2-11	CONNECTOR	FFC/FPC (1-11)	
R6705	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		△ CN901	QGA7901C1-02	CONNECTOR	W-B (1-2)	
R6706	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		△ CP951	ICP-N10-T	IC PROTECTOR	400mA	
R6707	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J		△ CP952	ICP-N38-T	IC PROTECTOR	1.5A	
R6708	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		DI501	QLF0168-001	FL TUBE		
R6709	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		EP901	QNZ0136-001Z	EARTH PLATE		
R6710	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J		EP902	QNZ0136-001Z	EARTH PLATE		
R6711	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		FC901	QNG0019-001Z	FUSE CLIP		
R6712	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		FC902	QNG0019-001Z	FUSE CLIP		
R6713	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J						

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
FW511	QUM215-08DGZ4-E	PARA RIBON WIRE			C211	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
FW591	QUM214-22DGZ4-E	PARA RIBON WIRE			C217	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
FW901	QUM216-07DGZ4-E	PARA RIBON WIRE			C251	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
FW902	QUM217-07DGZ4-E	PARA RIBON WIRE			C256	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
FW903	QUM217-07DGZ4-E	PARA RIBON WIRE			C257	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
HS901	QZW0261-001	HEAT SINK	HS 921		C258	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
HS951	E70945-H40B	HEAT SINK			C259	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
HS953	GV40614-001A	HEAT SINK			C260	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
J5901	QNS0231-001	JACK			C261	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
J6401	QNN0557-002	PIN JACK			C262	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
J6402	QNN0692-001	PIN JACK			C263	NEAF1CM-107X	E CAPACITOR	100uF 16V M	
J6801	QNN0575-001	PIN JACK			C301	NEAF0GM-227X	E CAPACITOR	220uF 4V M	
K5901	NQR0007-002X	FERRITE BEADS			C302	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
K5902	NQR0007-002X	FERRITE BEADS			C303	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
K5903	NQR0007-002X	FERRITE BEADS			C304	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
S531	QSW0683-001Z	PUSH SW I.M			C305	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
S532	QSW0683-001Z	PUSH SW I.M			C306	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
S533	QSW0683-001Z	PUSH SW I.M			C307	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
S534	QSW0683-001Z	PUSH SW I.M			C308	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
S535	QSW0683-001Z	PUSH SW I.M			C309	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
S536	QSW0683-001Z	PUSH SW I.M			C310	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
S537	QSW0683-001Z	PUSH SW I.M			C311	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
S538	QSW0683-001Z	PUSH SW I.M			C312	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
△ TH901	QAD0141-8R0	THERMISTOR	8Ω		C314	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
TH951	NAD0025-103X	N THERMISTOR	10kΩ		C316	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
△ VA901	QAF0026-751	VARISTOR	750V		C317	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
W5901	QUB220-05DMHP-E	SIN TWIST WIRE			C318	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
WC602	QZW0112-001	WIRE CLAMP			C319	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	

DVD module board

Block No. [0][3]

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6502-X	IC			C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC301	MN2DS0016AA	IC			C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC302	MM1701CH-X	IC			C322	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC303	XC2164A51FM-X	IC			C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC305	MM1563DF-X	IC			C324	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
IC453	S-80830CNNB-G-W	IC			C325	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
IC505	K4S641632K-UC75	IC			C326	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
IC505 or	K4S641632H-UC75	IC			C327	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
IC509	-----	IC(MICRO C ROM)			C328	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
IC509 or	-----	IC(MICRO C ROM)			C330	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
IC510	BR24L16FV-W-X	IC			C331	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
IC706	SN74AHC1G08DC-X	IC C.M			C332	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
IC707	SN74AHC1G04DC-X	IC			C333	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
IC801	MM1565AF-X	IC			C334	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
IC811	ISP1106DH-X	IC			C335	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
Q101	KTA1001/Y/-X	TRANSISTOR			C337	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
Q101 or	2SB1424/R/-W	TRANSISTOR			C338	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
Q102	2SC4617/R/-X	TRANSISTOR			C339	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
Q103	KTA1001/Y/-X	TRANSISTOR			C340	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
Q103 or	2SB1424/R/-W	TRANSISTOR			C341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
Q104	2SC4617/R/-X	TRANSISTOR			C345	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
Q801	KRA104S-X	DIGI TRANSISTOR			C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q801 or	UN2113-X	TRANSISTOR			C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C101	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		C349	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C102	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		C350	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C103	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		C351	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C104	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		C352	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C105	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M		C353	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C106	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M		C354	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C107	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		C356	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C108	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M		C359	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C201	NDC31HJ-221X	C CAPACITOR	220pF 50V J		C370	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C202	NDC31HJ-221X	C CAPACITOR	220pF 50V J		C371	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C372	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C204	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		C373	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C205	NCB31HK-271X	C CAPACITOR	270pF 50V K		C374	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C206	NDC31HJ-151X	C CAPACITOR	150pF 50V J		C375	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C210	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		C378	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
					C379	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
					C380	NCB21CK-105X	C CAPACITOR	1uF 16V K	
					C381	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
					C382	NCB31HK-471X	C CAPACITOR	470pF 50V K	
					C383	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
					C393	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
					C455	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
					C551	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
					C554	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
					C555	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
					C557	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
					C558	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C559	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R371	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D	
C560	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R372	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C562	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		R373	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C563	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R375	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C564	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R376	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C721	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R383	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C801	NCB21CK-105X	C CAPACITOR	1uF 16V K		R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C802	NCB21AK-225X	C CAPACITOR	2.2uF 10V K		R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C803	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M		R392	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C804	NCB31HK-471X	C CAPACITOR	470pF 50V K		R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C811	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C812	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R535	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
					R541	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R542	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R712	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R103	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R713	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R104	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J		R720	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R105	NRS181J-180X	MG RESISTOR	18Ω 1/8W J		R722	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R106	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		R729	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R730	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R109	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R111	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R740	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R112	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J		R811	NRS125J-330X	MG RESISTOR	33Ω 1/2W J	
R113	NRS181J-180X	MG RESISTOR	18Ω 1/8W J		R812	NRS125J-330X	MG RESISTOR	33Ω 1/2W J	
R114	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		R813	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R115	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R814	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R116	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R819	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R821	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R125	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J		R822	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R127	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J		R823	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R128	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R851	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R201	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R855	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R202	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R856	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R857	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R858	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R206	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J		R859	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R860	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R861	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R219	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		CN101	QGF0523F3-24W	CONNECTOR	FFC/FPC (1-24)	
R220	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J		CN201	QGF1016F8-08W	CONNECTOR	FFC/FPC (1-8)	
R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		CN701	QGF1016F8-25W	CONNECTOR	FFC/FPC (1-25)	
R251	NRS125J-R39X	MG RESISTOR	0.39Ω 1/2W J		CN702	QGF1016F8-15W	CONNECTOR	FFC/FPC (1-15)	
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN704	QGA1002F1-03X	CONNECTOR	W-B (1-3)	
R303	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		CN801	QGF1016F8-05W	CONNECTOR	FFC/FPC (1-5)	
R304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		CN811	QGA2001F6-05X	CONNECTOR	W-B (1-5)	
R305	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		K101	NQR0502-001X	FERRITE BEADS		
R306	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K351	NQR0502-001X	FERRITE BEADS		
R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K352	NQR0502-001X	FERRITE BEADS		
R309	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		K353	NQR0502-001X	FERRITE BEADS		
R310	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		K354	NQR0022-002X	FERRITE BEADS		
R313	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		K501	NQR0502-001X	FERRITE BEADS		
R314	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		K701	NQR0022-002X	FERRITE BEADS		
R316	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K702	NQR0022-002X	FERRITE BEADS		
R318	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		K703	NQR0022-002X	FERRITE BEADS		
R319	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K704	NQR0022-002X	FERRITE BEADS		
R326	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K705	NQR0022-002X	FERRITE BEADS		
R327	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K706	NQR0022-005X	FERRITE BEADS		
R333	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		K707	NQR0022-002X	FERRITE BEADS		
R338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		K708	NQR0022-002X	FERRITE BEADS		
R339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		K709	NQR0022-002X	FERRITE BEADS		
R340	NRSA63D-303X	MG RESISTOR	30kΩ 1/16W D		K710	NQR0022-002X	FERRITE BEADS		
R341	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D		K711	NQR0022-002X	FERRITE BEADS		
R342	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D		K712	NQR0360-003X	MG RESISTOR		
R345	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		K713	NQR0360-003X	MG RESISTOR		
R346	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		K714	NQR0502-001X	FERRITE BEADS		
R347	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J		K722	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R350	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J		K759	NQR0251-004X	FERRITE BEADS		
R351	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		K761	NQR0251-004X	FERRITE BEADS		
R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		K762	NQR0251-004X	FERRITE BEADS		
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		K763	NQR0251-004X	FERRITE BEADS		
R357	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		K765	NQR0251-004X	FERRITE BEADS		
R358	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		K810	NQR0502-001X	FERRITE BEADS		
R359	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		K811	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R360	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		K812	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R362	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		TH301	NAD0025-103X	N THERMISTOR	10kΩ	
R367	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		X301	NAX0741-001X	CRYSTAL		

△ Symbol No.	Part No.	Part Name	Description	Local
X302	NAX0376-002X	CRYSTAL		

DVD loading switch board

Block No. [0][4]

△ Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF1016F9-05	CONNECTOR	FFC/FPC (1-5)	
S1	QSW1074-001	DETECT SWITCH		

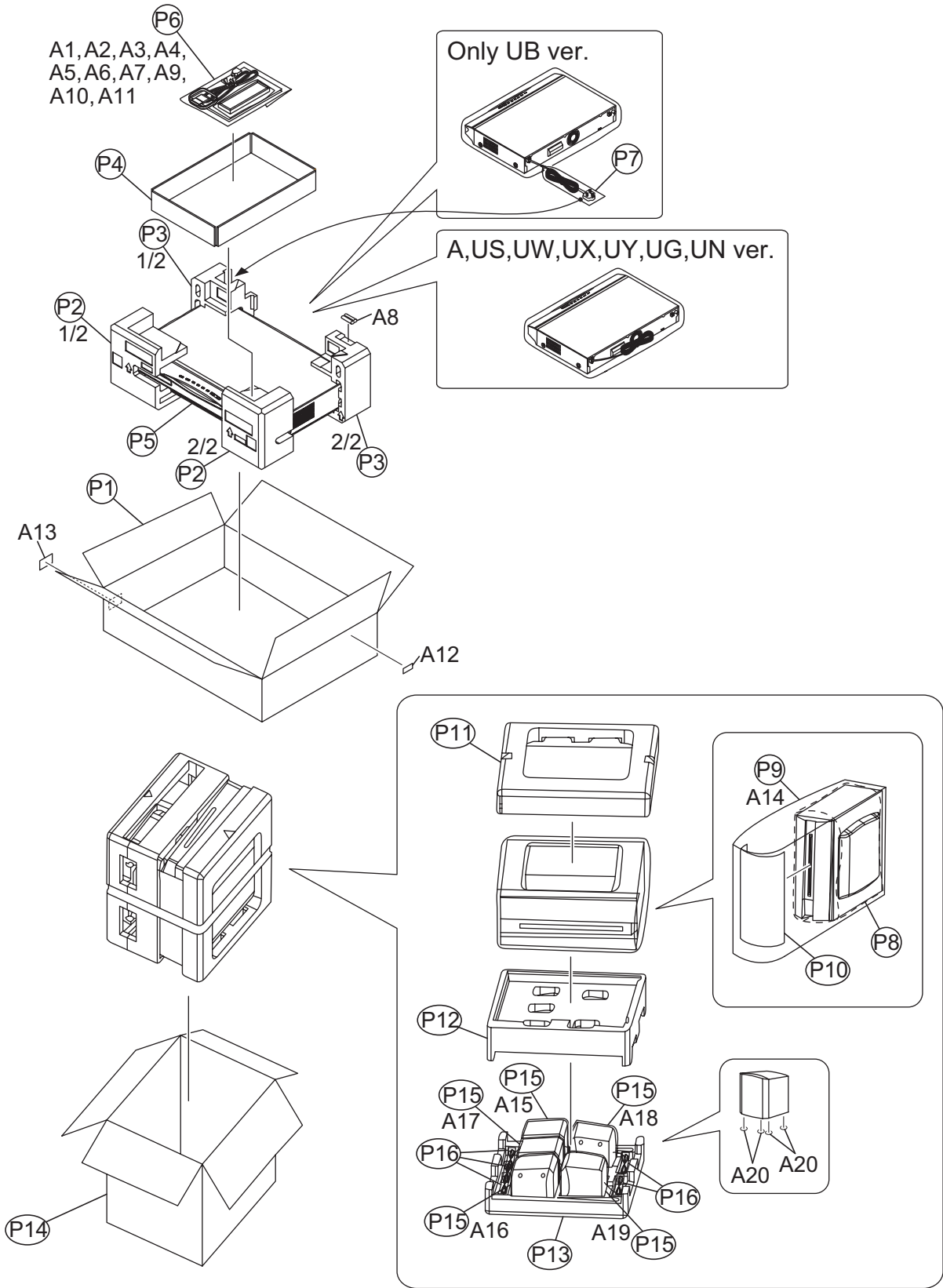
Packing materials and accessories parts list

Block No.

M	3	M	M
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(Except TH-P3UJ)

No additional / supplemental order of WARRANTY CARDS are available.



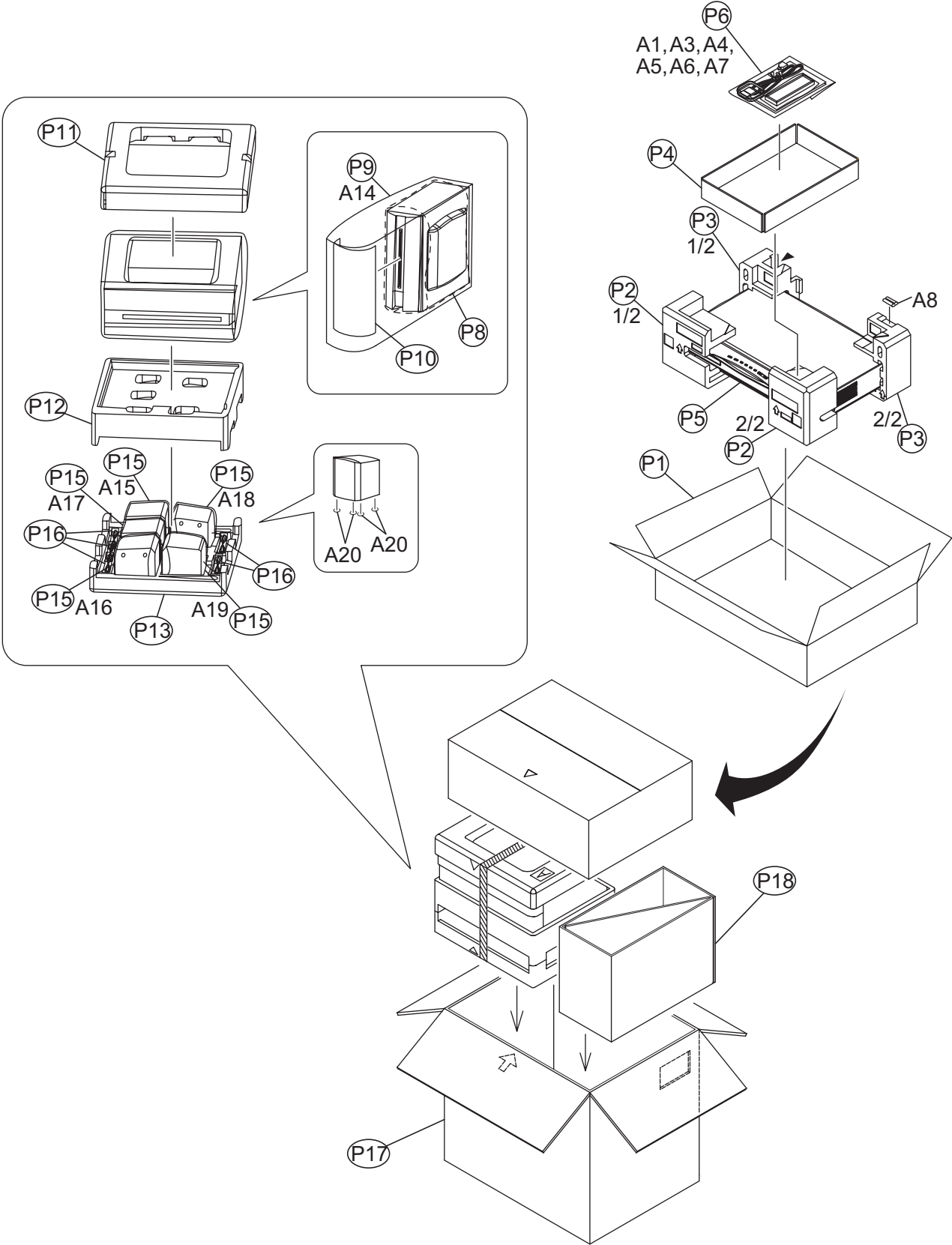
Packing and Accessories (Except TH-P3UJ)

Block No. [M][3][M][M]

△	Symbol No.	Part No.	Part Name	Description	Local
	A 1	LVT1523-008A	INST BOOK	ENG	A,US,UB,UW,UX,UG,UN
	A 1	LVT1523-011A	INST BOOK	SPA POR	UY
	A 2	LVT1523-009A	INST BOOK	CHI(PEKIN)	US,UB,UN
	A 2	LVT1523-011A	INST BOOK	SPA POR	UW
	A 2	LVT1523-010A	INST BOOK	ARA PER	UX,UG
△	A 3	QAM0112-002	PLUG ADAPTOR		US,UW,UN
	A 4	QAM0216-001	SIGNAL CORD		
	A 5	QAL0457-001	ANT.WIRE		
	A 6	QAL0476-002	AM LOOP ANT		
	A 7	RM-STHP7U	REMOTE CONTROL UNIT		
	A 8	-----	BATTERY	1.5V(x2)	
	A 9	-----	WARRANTY CARD	BT-56017-1	A
	A 10	-----	WARRANTY CARD	BT-56016-1	A
	A 11	LV30258-0C6A	UB SHEET		UB
	A 12	GV40641-002A	NOM LABEL		UW
	A 13	LV30259-018A	UY LABEL		UY
	A 14	QAS0411-001	SPEAKER BOX	SPK WITH BOX-WO	
	A 15	AB066006-02	SPEAKER BOX	SPK WITH BOX-FL	
	A 16	AB066006-03	SPEAKER BOX	SPK WITH BOX-FR	
	A 17	AB066006-01	SPEAKER BOX	SPK WITH BOX-C	
	A 18	AB066006-04	SPEAKER BOX	SPK WITH BOX-SL	
	A 19	AB066006-05	SPEAKER BOX	SPK WITH BOX-SR	
	A 20	9000008401	RUBBER CUSHION	(x20)	
	P 1	LV36684-005A	CARTON BOX		A,UW,UY
	P 1	LV36684-004A	CARTON BOX		US,UB,UN
	P 1	LV36684-003A	CARTON BOX		UX,UG
	P 2	LV22270-002A	CUSHION(F)		
	P 3	LV22271-001A	CUSHION(R)		
	P 4	LV36967-001A	CARTON SPACER		
	P 5	QPC06506515P	POLY BAG	65cm x 65cm	
	P 6	QPA02503503P	POLY BAG	25cm x 35cm	
	P 7	QPA01503503	POLY BAG	15cm x 35cm	UB
	P 8	8500062261	MIRROR MAT SHEET		
	P 9	8500055721	POLY BAG		
	P 10	8500060071	NONWOVENS SHEET		
	P 11	LV22291-001A	CUSHION A		
	P 12	LV22291-002A	CUSHION B		
	P 13	LV22291-003A	CUSHION C		
	P 14	LV35831-099A	PACKING CASE		A
	P 14	LV35831-0A1A	PACKING CASE		US,UB,UW,UY,UN
	P 14	LV35831-0A2A	PACKING CASE		UG
	P 14	LV35831-0A3A	PACKING CASE		UX
	P 15	8500062701	POLY BAG	(x5)	
	P 16	8500062801	POLY BAG	(x5)	

Packing materials and accessories parts list
(Only TH-P3UJ)

Block No. M 4 M M



Packing and Accessories (Only TH-P3UJ)

Block No. [M][4][M][M]

△	Symbol No.	Part No.	Part Name	Description	Local
	A 1	LVT1523-014A	INST BOOK	ENG	
△	A 3	QAM0112-002	PLUG ADAPTOR		
	A 4	QAM0216-001	SIGNAL CORD		
	A 5	QAL0457-001	ANT.WIRE		
	A 6	QAL0476-002	AM LOOP ANT		
	A 7	RM-STHP7U	REMOTE CONTROL UNIT		
	A 8	-----	BATTERY	1.5V(x2)	
	A 14	QAS0411-001	SPEAKER BOX	SPK WITH BOX-WO	
	A 15	AB066006-02	SPEAKER BOX	SPK WITH BOX-FL	
	A 16	AB066006-03	SPEAKER BOX	SPK WITH BOX-FR	
	A 17	AB066006-01	SPEAKER BOX	SPK WITH BOX-C	
	A 18	AB066006-04	SPEAKER BOX	SPK WITH BOX-SL	
	A 19	AB066006-05	SPEAKER BOX	SPK WITH BOX-SR	
	A 20	9000008401	RUBBER CUSHION	(x20)	
	P 1	LV36685-002A	CARTON BOX		
	P 2	LV22270-002A	CUSHION(F)		
	P 3	LV22271-001A	CUSHION(R)		
	P 4	LV36967-001A	CARTON SPACER		
	P 5	QPC06506515P	POLY BAG	65cm x 65cm	
	P 6	QPA02503503P	POLY BAG	25cm x 35cm	
	P 8	8500062261	MIRROR MAT SHEET		
	P 9	8500055721	POLY BAG		
	P 10	8500060071	NONWOVENS SHEET		
	P 11	LV22291-001A	CUSHION A		
	P 12	LV22291-002A	CUSHION B		
	P 13	LV22291-003A	CUSHION C		
	P 15	8500062701	POLY BAG	(x5)	
	P 16	8500062801	POLY BAG	(x5)	
	P 17	LV37012-002A	MASTER CARTON		
	P 18	LV37014-001A	CARTON SPACER		